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500 CONTRACTORS RECEIVING THE LARGEST DOLLAR VOLUME  
OF PRIME CONTRACT AWARDS FOR RDT&E, FY-83. (U)  
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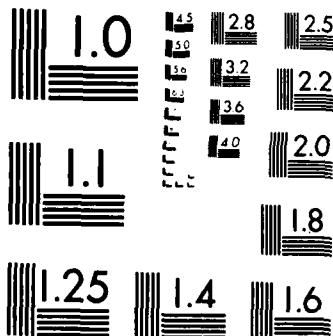
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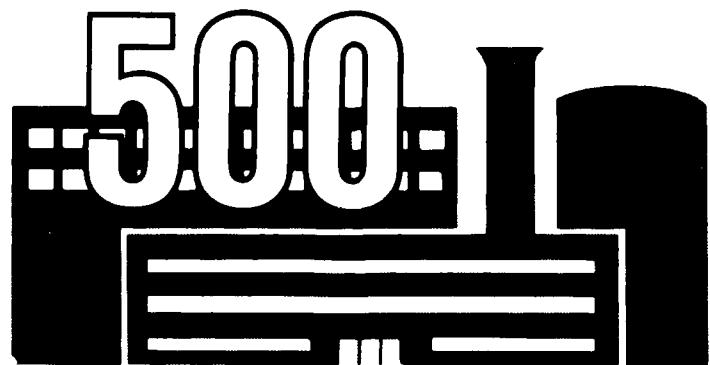
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**500 CONTRACTORS  
RECEIVING THE LARGEST DOLLAR VOLUME  
OF PRIME CONTRACT AWARDS  
FOR RDT&E  
Fiscal Year 1983**



Department of Defense

**500 CONTRACTORS RECEIVING THE LARGEST  
DOLLAR VOLUME OF PRIME CONTRACT AWARDS FOR  
RESEARCH, DEVELOPMENT, TEST, AND EVALUATION**

Fiscal Year 1983

Issued Annually by

Department of Defense  
Washington Headquarters Services  
Directorate for Information  
Operations and Reports

## FOREWORD

*500 Contractors Receiving the Largest Dollar Volume of Prime Contract Awards for Research, Development, Test, and Evaluation (RDT&E)* is published annually by the Office of the Secretary of Defense, Washington Headquarters Services, Directorate for Information Operations and Reports (WHS/DIOR).

This report provides information on the 500 contractors that received the largest dollar volume in Department of Defense (DOD) prime contract awards over \$25,000 for RDT&E in Fiscal Year (FY) 1983. These data are presented in five tables showing:

1. An alphabetical listing of the top 500 companies, with rank;
2. The ranking of and net value of awards to business firms operating in the United States;
3. The ranking of and net value of awards to educational and other nonprofit institutions operating in the United States;
4. The ranking of and net value of awards to foreign contractors; and
5. The ranking of and net value of awards to U.S. Government agencies.

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## INTRODUCTION

This report presents summary data on the 500 prime contractors receiving the largest dollar volume in Department of Defense (DOD) awards over \$25,000 for research, development, test, and evaluation (RDT&E) work during Fiscal Year (FY) 1983. RDT&E work can include research, exploratory development, advanced development, engineering development, operational systems development, or management and support services. (Full definitions for each of these categories are provided in Defense Acquisition Regulation 4-101.)

Table 1 (page 5) lists the 500 contractors in alphabetical order, shows the ranking for each, and shows how each has been categorized for reporting purposes. The categories are business firm (B), foreign contractor (F), and nonprofit institution (N). Table 2 (page 11) shows the net value of awards to business firms operating in the United States, by rank. Those firms which qualify as small businesses are further identified by an "S". The net value of awards to each of the firm's individual locations is also provided. Tables 3, 4, and 5 (pages 25, 29, and 31, respectively) provide the net value of awards to educational and other nonprofit institutions operating in the United States, foreign contractors, and U.S. government agencies, respectively. (While awards to U.S. government agencies are listed separately in Table 5, these agencies are categorized as nonprofit institutions in Table 1.) As in Table 2, contractors in Tables 3 through 5 are shown by rank, along with the net value of awards to each of the contractor's individual locations.

## NOTES ON COVERAGE

The dollar amounts shown here include prime contract awards over \$25,000 for RDT&E work only. Data on awards for other services, such as training, and on any supplies furnished by the contractors in support of research being done are excluded. Contract awards for civil functions have been included in these data. Civil functions encompass planning, programming, designing, constructing, and operating Federal water resource projects for navigation, flood control, hydroelectric power production, water supply, and other related activities.

The locations shown in the tables are the places where the work was to be performed. Normally, this is a facility of the concern awarded the contract. However, if the work was scheduled to be performed at a Defense facility, such as an Air Force base, the location shown is that of the Defense facility rather than the contractor.

## HIGHLIGHTS OF FY 1983 DATA

The following table shows the net value and percent distribution of all RDT&E awards, RDT&E awards to the top 500 companies, and all other RDT&E awards for FY 1983.

**Department of Defense Prime Contract Awards Over \$25,000**  
**Table II (Top 500 & ED/Nonprofit Pubs.)**  
**Fiscal Year 1983**

TYPE OF CONTRACTOR	TOTAL RDT&E			500 CONTRACTORS RDT&E			ALL OTHER RDT&E		
	NUMBER	AWARDS (\$000)	PERCENT OF TOTAL	NUMBER	AWARDS (\$000)	PERCENT OF TOTAL	NUMBER	AWARDS (\$000)	PERCENT OF TOTAL
RDT&E — TOTAL	1,901	16,300,900	100	500	16,014,020	100	1,401	286,880	100
BUSINESS FIRMS	1,507	14,524,612	89	382	14,297,094	89	1,125	227,518	79
Small	1,039	699,489	4	175	526,809	3	864	172,680	60
Large	468	13,825,123	85	207	13,770,285	86	261	54,838	19
EDUCATIONAL & NONPROFIT	317	1,727,194	11	110	1,678,810	10	207	48,384	17
Educational	204	941,891	6	84	910,841	6	120	31,250	11
Other Nonprofit	113	785,303	5	26	768,169	5	87	17,134	6
U.S. GOVERNMENT AGENCIES	10	21,929	—	3	19,921	—	7	2,008	1
FOREIGN	67	27,165	—	5	18,195	—	62	8,970	3
Nonprofit	40	12,190	—	1	8,780	—	39	3,410	1
Business Firms	27	14,975	—	4	9,415	—	23	5,560	2

\* Less than 0.5 percent.

NOTE: Totals may not add due to rounding.

The distribution of FY 1983 awards varies only slightly from that in FY 1982. In FY 1983, the top 500 contractors included 382 U.S. business firms (175 of which were small businesses); 110 educational and nonprofit institutions; 5 foreign contractors; and 3 U.S. government agencies. In FY 1983, there were 102 contractors on the top 500 list that had not appeared on the FY 1982 list.

In FY 1982 the top 500 consisted of 379 business firms (192 were small businesses); 110 educational and nonprofit institutions; 7 foreign contractors; and 4 U.S. government agencies.

In addition to the top 500 contractors, there were 1,401 other contractors for whom RDT&E procurement actions over \$25,000 were reported, for a total of 1,901 contractors for FY 1983. In FY 1982, the total number of contractors was 2,108. The top 500 RDT&E contractors received awards totaling \$16,014 million in FY 1983, compared to \$14,611 million in FY 1982, an increase of \$1,403 million or 9.6 percent. The \$16,014 million represents 98.2 percent of the \$16,301 million total prime contract awards over \$25,000 for RDT&E work in FY 1983.

Of the 32 contractors with RDT&E awards of \$100 million or more in FY 1983, 28 were business firms and 4 were educational and other nonprofit institutions. These 32 contractors had a total of \$11,370 million in RDT&E awards. In FY 1982, there were 30 contractors who reached the \$100 million plateau, with awards totaling \$11,182 million. Of these 30 contractors, 26 were business firms and 4 were educational and other nonprofit institutions. The amount of awards for this \$100 million group increased by \$188 million or 1.7 percent between FY 1982 and 1983.

The following table shows the type of RDT&E work the contractors were engaged in and the net value and percent distribution of all awards for each of these types in FY 1983. Engineering development accounted for the majority (53.0 percent) of RDT&E awards, followed by advanced development (17.4 percent).

TYPE	AWARDS (\$000)	PERCENT OF TOTAL
RDT&E — TOTAL	<u>\$16,300,900</u>	<u>100.0</u>
Engineering Development	8,646,811	53.0
Advanced Development	2,836,719	17.4
Operational Systems	2,431,906	14.9
Exploratory Development	1,260,832	7.7
Research	762,604	4.7
Management and Support	362,028	2.2

The following table shows the net value and percent distribution of all RDT&E awards by type of program. Within the RDT&E contracts, the largest volume of awards was for the research, development, test, or evaluation of missiles & space systems and electronic & communications equipment. In FY 1983, a combined total of \$11,125 million or 68.2 percent of all RDT&E awards over \$25,000 was for work connected with these programs.

PROGRAM	AWARDS (\$000)	PERCENT OF TOTAL
RDT&E — TOTAL	<u>\$16,300,900</u>	<u>100.0</u>
Missile Systems	6,443,757	39.5
Electronics & Communications		
Equipment	4,681,365	28.7
Aircraft	2,072,262	12.7
Services	1,635,888	10.0
Ships	408,897	2.5
Ammunition	297,399	1.8
Weapons	277,860	1.7
Tank-Automotive	162,060	1.0
All Other	321,412	2.0

Table 1. Alphabetical Listing of the Top 500 DOD Prime Contractors  
for Research, Development, Test, and Evaluation Work: FY 1983

RANK + LIST *	CONTRACTOR	RANK + LIST *	CONTRACTOR
59 B A A I CORP		307 B AUTOMATED SCIENCES GROUP INC	
485 B A M A F INDUSTRIES INC		36 B AUTOMATION INDUSTRIES INC	
253 B A M GENERAL CORP		21 B AVCO CORP	
476 F A S KONSBERG VAPENFABRIKK		86 B AVCO EVERETT RESEARCH LABORATORY	
261 F A S RAUFOSS AMMUNISJONSFABRINKKER		46 B B D M CORP	
191 B ACUREX CORP		208 B B D M MANAGEMENT SERVICE CO	
278 B ADVANCED INFORMATION & DECN SYS		161 B B D M SERVICES CO	
324 B ADVANCED RESEARCH & APPL CORP		390 B B K DYNAMICS INC	
284 B ADVANCED TECHNOLOGY INC		434 B BAIRD CORP	
354 B AERODYNE RESEARCH INC		201 B BALL BROS RESEARCH CORP	
130 B AEROJET ELECTRO SYSTEMS CO		209 B BALL CORP	
32 B AEROJET GENERAL CORP		403 B BATTELLE COLUMBUS LABORATORIES	
129 B AEROJET ORDNANCE & MFG CO		76 N BATTELLE MEMORIAL INSTITUTE	
29 B AEROJET STRATEGIC PROPULSION CO		103 B BECHTEL NATIONAL INC	
369 B AERONAUTICAL RESEARCH ASSOCIATES		398 B BEDFORD RESEARCH ASSOCIATES INC	
14 N AEROSPACE CORP		484 B BELL HELICOPTER INTERNATIONAL INC	
378 N ALABAMA UNIVERSITY OF		131 B BELL TECHNICAL OPERATIONS CORP	
166 B ALLIED CORP		50 B BENDIX CORP	
358 B ALTUS CORP		102 B BENDIX FIELD ENGINEERING CORP	
350 B AMERICAN AIRLINES INC		480 B BERKELEY RESEARCH ASSOC	
140 B AMERICAN ELECTRONIC LABS INC		171 B BETAC CORP	
95 B AMEX SYSTEMS INC		1 B BOEING CO	
416 B AMPLEX CORP		101 B BOEING VERTOL CO	
337 B ANACAPA SCIENCES INC		73 B BOLT BERANEK & NEWMAN INC	
207 B ANALYSIS & COMPUTER SYSTEMS INC		94 B BOOZ ALLEN & HAMILTON INC	
255 B ANALYSIS & TECHNOLOGY INC		276 N BOSTON COLLEGE	
365 B ANALYTIC DECISIONS INC		234 N BOSTON UNIVERSITY	
187 N ANALYTIC SERVICES INC		316 N BROWN UNIVERSITY	
193 B ANALYTICAL SYSTEMS ENGR CORP		232 B BRUNSWICK CORP	
181 B ANALYTICS INC		107 B BURROUGHS CORP	
274 B ANALYTIX ELECTRONICS SYSTEMS INC		259 B C T E C	
386 B ANAMET LABORATORIES INC		364 B CACI INC FEDERAL	
458 B APPLICATIONS RESEARCH CORP		265 B CALCULON CORP	
462 B APPLIED RESEARCH ASSOCIATES		188 N CALIFORNIA INSTITUTE OF TECHNOLOGY	
227 B APPLIED RESEARCH INC		248 B CALIFORNIA RESEARCH & TECHNOLOGY	
383 B APPLIED SCIENCE ASSOCIATES INC		233 N CALIFORNIA STATE OF	
372 B APPLIED TECHNOLOGY ASSOCIATES INC		54 N CALIFORNIA UNIVERSITY OF	
452 B APTEK		41 B CALSPAN CORP	
147 B ARES INC		132 F CANADIAN COMMERCIAL CORP	
359 B ARETE ASSOCIATES INC		435 B CANYON RESEARCH GROUP INC	
172 B ARGO SYSTEMS INC		106 N CARNEGIE MELLON UNIVERSITY	
178 B ARINC RESEARCH CORP		330 N CASE WESTERN RESERVE UNIVERSITY	
260 N ARIZONA UNIVERSITY OF		475 N CATHOLIC UNIVERSITY OF AMERICA	
487 B ARMAMENT SYSTEMS INC		471 B CERADYNE INC	
273 N ARMOUR PHARMACEUTICAL CO		37 N CHARLES STARK DRAPER LABS INC	
500 B ASSOCIATE CONSULTANTS INC		492 B CHRYSLER CORP	
247 B ASSURANCE TECHNOLOGY CORP		256 B CINCINNATI ELECTRONICS CORP	
375 B ATLANTIC ANALYSIS CORP		336 N CLEMSON UNIVERSITY	
88 B ATLANTIC RESEARCH CORP		425 B COLONEY WAYNE H CO INC	
498 N AUBURN UNIVERSITY		343 N COLORADO STATE UNIVERSITY	

\* B = BUSINESS FIRM

F = FOREIGN CONTRACTOR

N = NON PROFIT INSTITUTION

Table 1. Alphabetical Listing of the Top 500 DOD Prime Contractors  
for Research, Development, Test, and Evaluation Work: FY 1983  
(Continued)

RANK + LIST *	CONTRACTOR	RANK + LIST *	CONTRACTOR
296 N	COLORADO UNIVERSITY	66 B	F M C CORP
149 N	COLUMBIA UNIVERSITY	342 B	FAIRCHILD CAMERA & INSTRUMENT CORP
174 B	COMMAND CONTROL & COMMUNICATION	60 B	FAIRCHILD INDUSTRIES INC
148 B	COMPTEK RESEARCH INC	393 B	FAIRCHILD SPACE & ELECTRONICS CO
292 B	COMPUTER CORP OF AMERICA	420 B	FAIRCHILD WESTON SYSTEMS INC
52 B	COMPUTER SCIENCES CORP	379 B	FIBER MATERIALS INC
447 B	CONSOLIDATED ANALYSIS CENTER INC	236 B	FIGGIE INTERNATIONAL INC
388 B	CONTEL INFORMATION SYSTEMS INC	286 B	FLIGHT SYSTEMS INC
245 B	CONTINENTAL ELECT MFG CO A TEX COR	288 N	FLORIDA STATE UNIVERSITY
83 B	CONTROL DATA CORP	424 N	FLORIDA TECHNOLOGICAL UNIVERSITY
177 N	CORNELL UNIVERSITY	311 N	FLORIDA UNIVERSITY
494 B	CORVUS SYSTEMS INC	33 B	FORD AEROSPACE & COMMUNICATIONS
151 B	CUBIC CORP	220 B	FOSTER MILLER ASSOCIATES INC
159 B	CUMMINS ENGINE CO INC	348 B	FREQUENCY ELECTRONICS INC
280 B	D B A SYSTEMS INC	449 B	G A F CORP
238 B	DAYRON CORP	136 B	G A TECHNOLOGIES INC
93 N	DAYTON UNIVERSITY OF	409 B	G T E AUTOMATIC ELECTRIC INC
460 B	DECISIONS & DESIGNS INC	444 B	G T E LABORATORIES INC
371 B	DEFENSE SYSTEMS INC	23 B	G T E PRODUCTS CORP
394 B	DELEX SYSTEMS INC	53 B	GARRETT CORP
411 B	DELTA RESEARCH INC	387 B	GENERAL ATRONICS CORP
413 B	DENELCOR INC	7 B	GENERAL DYNAMICS CORP
352 N	DENVER UNIVERSITY OF	6 B	GENERAL ELECTRIC CO
243 B	DIGITAL EQUIPMENT CORP	270 B	GENERAL INSTRUMENT CORP
158 B	DIKEWOOD INDUSTRIES INC	121 B	GENERAL MOTORS CORP
235 B	DOW CORNING CORP	85 B	GENERAL RESEARCH CORP
408 N	DREXEL UNIVERSITY	160 B	GENTEX CORP
418 N	DUKE UNIVERSITY	338 B	GEO CENTERS INC
139 B	DYNALECTRON CORP	351 B	GEODYNAMICS CORP
150 B	DYNAMICS RESEARCH CORP	287 N	GEORGE WASHINGTON UNIVERSITY
257 B	DYNETICS INC	332 N	GEORGETOWN UNIVERSITY
192 B	E G & G INC	299 N	GEORGIA INSTITUTE TECH
167 B	E G & G WASHINGTON ANAL SVC CEN	70 N	GEORGIA TECH RESEARCH INSTITUTE
195 B	E S D CORP	183 B	GILBERT ASSOCIATES
57 B	E S L INC	92 B	GLOBAL ASSOCIATES
62 B	E SYSTEMS INC	144 B	GOODYEAR AEROSPACE CORP
186 B	EAGLE TECHNOLOGY INC	142 B	GOULD INC
47 B	EATON CORP	28 B	GRUMMAN AEROSPACE CORP
222 B	EDO CORP	143 B	H R B SINGER INC
340 B	EFFECTS TECHNOLOGY INC	100 B	HANSON R A CO INC
380 B	ELECTRONIC ASSOCIATES INC	35 B	HARRIS CORP
127 B	ELECTRONIC WARFARE ASSOCIATES	135 B	HARSCO CORP
97 B	ELECTROSPACE SYSTEMS INC	214 N	HARVARD UNIVERSITY
61 B	EMERSON ELECTRIC CO	313 N	HAWAII UNIVERSITY OF
431 N	EMMANUEL COLLEGE	384 B	HAYES INTERNATIONAL CORP
361 B	ENERGY RESEARCH CORP	68 B	HAZELTINE CORP
224 B	ENSCO INC	320 B	HENNINGSTON DURHAM RICHARDSON
215 B	ENVIRO CONTROL INC	34 B	HERCULES INC
156 N	ENVIRONMENTAL RESEARCH INSTIT MICH	18 B	HONEYWELL INC
196 B	ERTEC WESTERN INC	239 B	HORIZONS TECHNOLOGY INC

\* B = BUSINESS FIRM

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Table 1. Alphabetical Listing of the Top 500 DOD Prime Contractors  
for Research, Development, Test, and Evaluation Work: FY 1983  
(Continued)

RANK + LIST *	CONTRACTOR	RANK + LIST *	CONTRACTOR
493 N	HOUSTON UNIVERSITY OF	440 B	M & S COMPUTING INC
8 B	HUGHES AIRCRAFT CO	468 B	M A N TRUCK & BUS CORP
162 B	HUGHES HELICOPTERS INC	465 B	M K ASSOCIATES INC
427 B	HUMAN FACTORS RESEARCH INC	331 B	MAC AULAY BROWN INC
305 N	HUMAN RESOURCES RESEARCH ORGN	146 B	MAGNAVOX ADVANCED PROD & SYS CO
461 B	HYCOM INC	84 B	MAGNAVOX GOVT & INDUSTRIAL ELEC CO
145 B	HYCOR INC	180 B	MANTECH INTERNATIONAL CORP
317 B	I L C DOVER	199 F	MARCONI CO LTD
478 B	I M R SYSTEMS CORP	428 B	MARINETTE MARINE CORP
306 B	I R T CORP	319 B	MARK RESOURCES INC
45 B	I T T & WESTINGHOUSE JV	185 B	MARQUARDT CO
464 B	I T T CONTINENTAL BAKING CO	3 B	MARTIN MARIE CORP
27 B	I T T CORP	154 N	MARYLAND UNI CITY OF
291 B	I T T GILFILLAN INC	15 N	MASSACHUSETT INSTITUTE TECHNOLOGY
51 N	ILLINOIS INSTITUTE TECHNOLOGY	250 N	MASSACHUSETT UNIVERSITY OF
116 N	ILLINOIS UNIVERSITY OF	333 B	MATHEMATICAL SCIENCE NORTHWEST INC
206 B	INCO INC	466 F	MATRA CO
496 B	INFORMATION SYSTEMS NETWORKS CORP	104 B	MAXWELL LABORATORIES INC
74 N	INSTITUTE FOR DEFENSE ANALYSIS	5 B	MCDONNELL DOUGLAS CORP
230 B	INSTRUMENTATION TECHNICAL ENGINEER	412 B	MCLEAN RESEARCH CENTER INC
482 B	INTEGRATED SYSTEMS ANALYSTS INC	321 B	MCMULLEN JOHN J ASSOCIATES INC
481 B	INTERCON SYSTEMS CORP	395 B	MEASUREMENT CONCEPT CORP
124 B	INTERMETRICS INC	453 B	MEDLEY TOOL & MODEL CO INC
11 B	INTERNATIONAL BUSINESS MACHINE CO	221 B	METRIC SYSTEMS CORP
367 B	INTERNATIONAL LASER SYSTEMS INC	242 N	MIAMI UNIVERSITY OF
118 B	INTERSTATE ELECTRONICS CORP	370 N	MICHIGAN STATE UNIVERSITY
326 N	IOWA UNIVERSITY OF	433 N	MICHIGAN TECHNOLOGICAL UNIVERSITY
374 B	IRVINE SENSORS CORP	254 N	MICHIGAN UNIVERSITY OF
123 B	ITEK CORP	397 B	MICROWAVE ASSOCIATES INC
91 B	JAYCOR	346 N	MINNESOTA UNIVERSITY OF
17 N	JOHNS HOPKINS UNIVERSITY	128 B	MISSION RESEARCH CORP
87 B	KAMAN SCIENCES CORP	407 N	MISSOURI UNIVERSITY OF
65 B	KENTRON INTERNATIONAL INC	20 B	MITRE CORP
377 B	KERNCO	26 B	MORTON THIOKOL INC
489 B	KESTREL INSTITUTE	39 B	MOTOROLA INC
295 B	KETRON INC	122 N	NATIONAL ACADEMY OF SCIENCES
223 B	KOLLMORGEN CORP	312 N	NEW MEXICO INSTITUTE MINING & TECH
300 N	LEHIGH UNIVERSITY	96 N	NEW MEXICO STATE UNIVERSITY
459 B	LIFE SUPPORT SYSTEMS INC	114 N	NEW MEXICO UNIVERSITY OF
163 B	LINKABIT CORP	258 B	NEW TECHNOLOGY INC
110 B	LITTLE ARTHUR D INC	381 N	NEW YORK POLYTECHNIC INSTITUTE
302 B	LITTON INDUSTRIES INC	310 N	NEW YORK STATE UNIV RESEARCH FOUND
55 E	LITTON SYSTEMS INC	448 N	NEW YORK STATE UNIVERSITY OF
22 B	LOCKHEED CORP	272 N	NEW YORK UNIVERSITY
344 B	LOCKHEED ELECTRONICS CO INC	490 B	NEWPORT NEWS SHIPBLD & DRY DOCK CO
9 B	LOCKHEED MISSILES & SPACE CO INC	137 B	NICHOLS RESEARCH CORP
69 B	LOGICON INC	417 B	NIELSEN ENGINEERING & RESEARCH CO
111 B	LORAL CORP	120 B	NORDEN SYSTEMS INC
194 B	LOS ALAMOS TECHNICAL ASSOCIATES	349 N	NORTH CAROLINA STATE UNIVERSITY
405 N	LOUISIANA STATE UNIVERSITY OF	309 N	NORTH CAROLINA UNIVERSITY OF

\* B = BUSINESS FIRM

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Table 1. Alphabetical Listing of the Top 500 DOD Prime Contractors  
for Research, Development, Test, and Evaluation Work: FY 1983  
(Continued)

RANK + LIST	CONTRACTOR	RANK + LIST	CONTRACTOR
298 N	NORTHEASTERN UNIVERSITY	318 B	RAYTHEON SERVICE CO
16 B	NORTHROP CORP	499 N	REGENTS OF THE UNIVERSITY OF MICH
422 B	NORTHWESTERN MOTOR CO	363 B	REL INC
353 N	NORTHWESTERN UNIVERSITY	264 N	RENSSELAER POLYTECHNIC INSTITUTE
463 B	NUCLEAR METALS INC	423 B	RESDEL ENGINEERING CORP
210 B	O A O CORP	335 N	RESEARCH TRIANGLE INSTITUTE
176 B	O R I INC	282 N	RHODE ISLAND UNIVERSITY OF
368 B	OCEAN DATA SYSTEMS INC	497 B	RIKER LABORATORIES INC
385 B	OCEAN TECHNOLOGY INC	202 N	RIVERSIDE RESEARCH INSTITUTE
197 N	OHIO STATE UNIV RESRCH FOUNDATION	78 N	ROCHESTER UNIVERSITY OF
290 N	OKLAHOMA STATE UNIVERSITY OF	2 B	ROCKWELL INTERNATIONAL CORP
325 B	OPTI METRICS INC	285 B	ROHM & HAAS CO
376 B	OPTIC ELECTRONIC CORP	454 B	ROLM CORP
408 B	OPTICAL SCIENCES CO	366 B	ROME RESEARCH CORP
213 N	OREGON STATE UNIVERSITY	467 B	ROSENBAUM HAROLD ASSOCIATES INC
477 B	ORLANDO TECHNOLOGY INC	456 N	RUTGERS UNIVERSITY
179 B	P D A ENGINEERING INC	200 B	S CUBED
438 B	PACCAR INC	49 N	S R I INTERNATIONAL
329 B	PACER SYSTEMS INC	297 B	SACHS FREEMAN ASSOCIATES INC
219 B	PACIFIC SIERRA RESEARCH CORP	170 N	SALK INSTITUTE THE
228 B	PAR TECHNOLOGY CORP	43 B	SANDERS ASSOCIATES INC
426 B	PATEL ENTERPRISES INC	165 B	SANDERS INTERNATIONAL TEL & TEL JV
229 B	PATTERN ANALYSIS & RECOGNITION CO	182 B	SANTA BARBARA RESEARCH CENTER
77 N	PENNSYLVANIA STATE UNIVERSITY	277 B	SARGENT FLETCHER CO
211 N	PENNSYLVANIA UNIVERSITY OF	168 B	SCHAFFER W J ASSOCIATES INC
249 B	PERCEPTRONICS INC	389 B	SCIENCE & ENGINEERING ASSOCIATES
134 B	PERKIN ELMER CORP	439 B	SCIENCE & TECHNOLOGY INC
406 B	PHOTON RESEARCH ASSOCIATES	38 B	SCIENCE APPLICATIONS INC
429 B	PHYSICAL DYNAMICS INC	271 B	SCOPE ELECTRONICS INC
455 B	PHYSICAL RESEARCH INC	240 B	SEMCOR INC
347 B	PHYSICAL SCIENCES CORP	491 B	SIERRA GEOPHYSICS INC
109 B	PHYSICS INTERNATIONAL CO	486 B	SIGNAL SCIENCE INC
212 B	PIASECKI AIRCRAFT CORP	443 B	SIGNATRON INC
293 N	PITTSBURGH UNIVERSITY OF	31 B	SINGER CO
82 B	PLANNING RESEARCH CORP	117 B	SOFTTECH INC
283 B	PLANNING SYSTEMS INC	108 B	SOLAR TURBINES INTERNATIONAL
437 B	POLAR RESEARCH LABORATORY INC	99 B	SONICRAFT INC
436 B	POLARIS INC	275 N	SOUTHEASTERN CTR ELECT ENGR EDUC
410 B	PRESEARCH INC	81 N	SOUTHERN CALIFORNIA UNIVERSITY OF
267 N	PRINCETON UNIVERSITY	244 N	SOUTHERN RESEARCH INSTITUTE
430 B	PROSPECTIVE DECISION MODELS INC	112 N	SOUTHWEST RESEARCH INSTITUTE
301 N	PURDUE RESEARCH FOUNDATION	334 B	SPACE COMMUNICATIONS CO
469 N	PURDUE UNIVERSITY	241 B	SPACE DATA CORP
153 B	QUEST RESEARCH CORP	399 B	SPACE VECTOR CORP
56 B	R & D ASSOCIATES	184 B	SPARTA INC
25 B	R C A CORP	404 B	SPARTON CORP
432 B	RADIAN CORP	322 B	SPECIAL METALS CORP
360 B	RAIL CO INC	314 B	SPECTRA RESEARCH SYSTEMS INC
71 N	RAND CORP	479 B	SPECTRON DEVELOPMENT LABORATORIES
13 B	RAYTHEON CO	24 B	SPERRY CORP

\* B = BUSINESS FIRM  
F = FOREIGN CONTRACTOR  
N = NON PROFIT INSTITUTION

Table 1. Alphabetical Listing of the Top 500 DOD Prime Contractors  
for Research, Development, Test, and Evaluation Work: FY 1983  
(Concluded)

RANK + LIST *	CONTRACTOR	RANK + LIST *	CONTRACTOR
67 N STANFORD UNIVERSITY		251 B TITAN SYSTEMS INC	
175 B STEARNS ROGER INC		473 B TOYON RESEARCH CORP	
400 B STENCIL AERO ENGINEERING CORP		138 B TRACOR INC	
414 N STEVENS INSTITUTE OF TECHNOLOGY		190 B TRIAD MICROSYSTEMS INC	
303 B STORAGE TECHNOLOGY CORP		115 B U R S BERGER	
155 B SUMMA CORP		119 B U T L CORP	
356 B SUMMIT RESEARCH CORP		105 B ULTRASYSTEMS INC	
225 B SUPPORT SYSTEMS ASSOCIATES INC		42 B UNIDYNAMICS ST LOUIS INC	
48 B SVERDRUP TECHNOLOGY INC		218 B UNITED SPACE BOOSTERS INC	
263 B SYNECTICS CORP		237 N UNITED STATES COMMERCE DEPT	
231 B SYNOPTIC SYSTEMS CORP		415 N UNITED STATES ENERGY DEPT	
279 N SYRACUSE RESEARCH CORP		90 N UNITED STATES NATL AERO SPACE AGY	
328 B SYSCON CORP		10 B UNITED TECHNOLOGIES CORP	
79 B SYSTEM DEVELOPMENT CORP		217 B UNIVERSAL ENERGY SYSTEMS INC	
113 B SYSTEM PLANNING CORP		391 B UNIVERSAL TECHNOLOGY CORP	
141 B SYSTEMS & APPLIED SCIENCES CORP		355 B UNIVOX CALIFORNIA CO	
451 B SYSTEMS ARCHITECTS INC		133 N UTAH STATE UNIVERSITY	
169 B SYSTEMS CONTROL TECHNOLOGY INC		203 N UTAH UNIVERSITY OF	
262 B SYSTEMS EXPLORATION INC		226 B V S E CORP	
382 B SYSTEMS PLANNING & ANALYSIS INC		157 B VARIAN ASSOCIATES	
474 B SYSTEMS RESEARCH & APPL CORP		327 B VECTOR RESEARCH INC	
75 B SYSTEMS RESEARCH LABORATORIES INC		341 B VEDA INC	
164 B SYSTEMS SCIENCE & SOFTWARE		281 B VERAC INC	
442 B SYSTRON DONNER CORP		246 N VIRGINIA POLYTECHNIC INSTITUTE	
58 B T A D COMMUNICATIONS CO		357 N VIRGINIA UNIVERSITY OF	
304 B T C O M CORP		445 B VISIDYNE INC	
4 B T R W INC		315 B VITRONICS INC	
421 B T S C CORP		19 B VOUGHT CORP	
339 B T V I ENERGY CORP		472 B WAGNER DANIEL H ASSOCIATES INC	
289 B TECHDYN SYSTEMS CORP		323 N WASHINGTON BOOKER T FOUNDATION	
483 B TECHNITROL INC		294 B WASHINGTON PATROL SERVICE INC	
205 B TECHNOLOGY DEVELOPMENT CORP CALIF		457 N WASHINGTON STATE UNIVERSITY	
396 B TECHNOLOGY INC		495 N WASHINGTON UNIVERSITY	
152 B TECHNOLOGI SERVICE CORP		89 N WASHINGTON UNIVERSITY OF	
373 B TEKTRONIX INC		402 B WATKINS JOHNSON CO	
64 B TELEDYNE BROWN ENGINEERING		269 B WEIDLINGER ASSOCIATES CONSULT ENGR	
450 B TELEDYNE CONTINENTAL MOTORS		441 N WENTWORTH INSTITUTE	
345 B TELEDYNE CONTROLS		470 B WESTEC SERVICES INC	
308 B TELEDYNE GEOTECH		40 B WESTERN ELECTRIC CO INC	
173 B TELEDYNE INC		80 B WESTERN GEAR CORP	
63 B TELEDYNE INDUSTRIES INC		268 B WESTERN RESEARCH CORP	
362 B TELEPHONICS CORP		12 B WESTINGHOUSE ELECTRIC CORP	
401 N TENNESSEE UNIVERSITY OF		125 B WILLIAMS INTERNATIONAL CORP	
392 B TETRA TECH INC		204 N WISCONSIN UNIVERSITY OF	
252 N TEXAS A & M RESEARCH FOUNDATION		126 N WOODS HOLE OCEANOGRAPHIC INST	
44 B TEXAS INSTRUMENTS INC		189 B XEROX CORP	
446 N TEXAS TECHNOLOGICAL COLLEGE		216 B XEROX ELECTRO OPTICAL SYSTEMS INC	
72 N TEXAS UNIVERSITY OF		266 B XONTECH INC	
30 B TEXTRON INC		198 N YALE UNIVERSITY	
98 B THE ANALYTIC SCIENCES CORP		419 B YOUNG ARTHUR & CO	

\* B = BUSINESS FIRM

F = FOREIGN CONTRACTOR

N = NON PROFIT INSTITUTION

Table 2. Net Value of DOD Prime Contract Awards Over \$25,000  
for RDT&E to Business Firms: FY 1983

RANK	NAME OF CONTRACTOR AND LOCATION	THOUSANDS OF DOLLARS	RANK	NAME OF CONTRACTOR AND LOCATION	THOUSANDS OF DOLLARS			
1	BOEING CO HUNTSVILLE ALABAMA WICHITA KANSAS FORT WORTH TEXAS HOUSTON TEXAS KENT WASHINGTON SEATTLE WASHINGTON	1,703,491 * 4,488 221,277 21,000 96 177,497 1,279,133		GENERAL ELECTRIC CO SUNNYVALE CALIFORNIA ARCHER FLORIDA DAYTONA BEACH FLORIDA LANHAM MARYLAND BEDFORD MASS HANSCOM AFB MASS LYNN MASS PITTSFIELD MASS WEST LYNN MASS WILMINGTON MASS BINGHAMTON NEW YORK JOHNSON CITY NEW YORK LIVERPOOL NEW YORK NORTH SYRACUSE NEW YORK SYRACUSE NEW YORK UTICA NEW YORK CINCINNATI OHIO EVENDALE OHIO KING OF PRUSSI PA PHILADELPHIA PA VALLEY FORGE PA BURLINGTON VERMONT ARLINGTON VIRGINIA	100 411 18,212 98 910 2,785 46,234 21,954 13,655 2,336 704 629 37 94 67,952 127,853 20,780 141,090 10,402 35,256 111,965 1,416 7,071 6,826			
2	ROCKWELL INTERNATIONAL CORP ALAMEDA CALIFORNIA ANAHEIM CALIFORNIA CANOGA PARK CALIFORNIA CULVER CITY CALIFORNIA DOWNEY CALIFORNIA EL SEGUNDO CALIFORNIA LOS ANGELES CALIFORNIA NEWPORT BEACH CALIFORNIA SEAL BEACH CALIFORNIA THOUSAND OAKS CALIFORNIA VANDENBERG AFB CALIFORNIA DULUTH GEORGIA NORCROSS GEORGIA CEDAR RAPIDS IOWA KIRTLAND AFB NEW MEXICO COLUMBUS OHIO DAYTON OHIO WRIGHT PATTERS OHIO TULSA OKLAHOMA DALLAS TEXAS RICHARDSON TEXAS	1,171,720 * 932 302,831 185,646 86 57,875 300 462,946 277 83,464 12,874 3,869 15,488 125 20,323 230 4,033 30 62 171 144 20,194		7 GENERAL DYNAMICS CORP YUMA ARIZONA CAMDEN ARKANSAS PACOMA CALIFORNIA POINT MUGU CALIFORNIA POMONA CALIFORNIA SAN DIEGO CALIFORNIA VANDENBERG AFB CALIFORNIA GROTON CONNECTICUT CENTER LINE MICHIGAN WARREN MICHIGAN HOLLOMAN AFB NEW MEXICO KIRTLAND AFB NEW MEXICO FORT WORTH TEXAS	643,504 * 60 516 85 105 75,736 306,517 11,856 54,759 36,495 59,174 108 3,550 94,543			
3	MARTIN MARIETTA CORP VANDENBERG AFB CALIFORNIA DENVER COLORADO JEFFERSON COLORADO WATERTON COLORADO ORLANDO FLORIDA BALTIMORE MARYLAND WAKEFIELD MASS KIRTLAND AFB NEW MEXICO	1,048,660 * 339,654 427,017 300 17,411 238,043 14,698 10,492 1,045		4 T R W INC HUNTSVILLE ALABAMA EL SEGUNDO CALIFORNIA LAHNDALE CALIFORNIA NEWBURY PARK CALIFORNIA NORTON AFB CALIFORNIA REDONDO BEACH CALIFORNIA SAN DIEGO CALIFORNIA SAN JUAN CAPIS CALIFORNIA ALBUQUERQUE NEW MEXICO CLEVELAND OHIO DAYTON OHIO WRIGHT PATTERS OHIO FALLS CHURCH VIRGINIA LANGLEY AFB VIRGINIA MCLEAN VIRGINIA	669,331 * 3,429 1,293 150 322- 123,059 438,362 2,183 11,463 227 164 2,385 159 57,301 53 29,425		8 HUGHES AIRCRAFT CO TUCSON ARIZONA CANOGA PARK CALIFORNIA CULVER CITY CALIFORNIA EL SEGUNDO CALIFORNIA FULLERTON CALIFORNIA IRVINE CALIFORNIA LONG BEACH CALIFORNIA LOS ANGELES CALIFORNIA MALIBU CALIFORNIA NEWPORT BEACH CALIFORNIA TORRANCE CALIFORNIA EGLIN AFB FLORIDA CHICAGO ILLINOIS GRIFFISS AFB NEW YORK DALLAS TEXAS	627,333 * 262 123 206,280 29,624 92,044 203,025 1,369 1,063 18,000 11,391 739 62,988 1,334 34 298 749
5	MCDONNELL DOUGLAS CORP HUNTINGTON BEA CALIFORNIA LONG BEACH CALIFORNIA LOWRY AFB COLORADO TITUSVILLE FLORIDA BERKELEY MISSOURI ST CHARLES MISSOURI ST ELIZABETH MISSOURI ST LOUIS MISSOURI TULSA OKLAHOMA	647,323 * 150,558 61,529 457 2,045 603 400 100- 431,749 62		9 LOCKHEED MISSILES & SPACE CO INC HUNTSVILLE ALABAMA PALO ALTO CALIFORNIA SAN DIEGO CALIFORNIA SUNNYVALE CALIFORNIA AUSTIN TEXAS	509,219 * 3,358 51,346 191 436,708 17,616			
6	GENERAL ELECTRIC CO JAMAICA T T PAC IS HUNTSVILLE ALABAMA WILLIAMS AFB ARIZONA SANTA BARBARA CALIFORNIA	645,426 * 26 990 2,413 4,573 874		10 UNITED TECHNOLOGIES CORP COYOTE CALIFORNIA SAN JOSE CALIFORNIA SUNNYVALE CALIFORNIA BRIDGEPORT CONNECTICUT EAST HARTFORD CONNECTICUT HARTFORD CONNECTICUT NORWALK CONNECTICUT SOUTH WINDSOR CONNECTICUT	339,431 * 75 685 21,731 2,000 4,879 177 27,818 2,573			

- = MINUS AMOUNT (CANCELLATIONS EXCEED NEW AWARDS)

S = SMALL BUSINESS

Table 2. Net Value of DOD Prime Contract Awards Over \$25,000  
for RDT&E to Business Firms: FY 1983  
(Continued)

RANK	NAME OF CONTRACTOR AND LOCATION	THOUSANDS OF DOLLARS	RANK	NAME OF CONTRACTOR AND LOCATION	THOUSANDS OF DOLLARS
	UNITED TECHNOLOGIES CORP			HONEYWELL INC	
	STRATFORD CONN	68,321		ST PAUL	MINNESOTA 119
	WINDSOR LOCKS CONN	4,976		EATONTOWN	NEW JERSEY 741
	PALM BEACH AFB FLORIDA	100		HORSHAM	PA 121
	WEST PALM BEAC FLORIDA	204,172		SEATTLE	WASHINGTON 2,041
	ALBUQUERQUE NEW MEXICO	170			
	MELVILLE NEW YORK	212	19	VOUGHT CORP	210,841 *
	FORT WASHINGTON PA	1,542		HONOLULU	HAWAII 70
11	INTERNATIONAL BUSINESS MACHINE CO	296,385 *		DALLAS	TEXAS 210,771
	SAN JOSE CALIFORNIA	528	21	AVCO CORP	199,514 *
	THOUSAND OAKS CALIFORNIA	121		STRATFORD CONN	2,490
	WESTLAKE VILLA CALIFORNIA	10,445		EVERETT MASS	97
	GAITHERSBURG MARYLAND	124,775		LOWELL MASS	1,400
	OWEGO NEW YORK	87,194		WILMINGTON MASS	195,527
	YORKTOWN HTGS NEW YORK	5,756	22	LOCKHEED CORP	194,378 *
	HOUSTON TEXAS	1,844		BURBANK CALIFORNIA	68,938
	ARLINGTON VIRGINIA	6,990		PALO ALTO CALIFORNIA	240
	MANASSAS VIRGINIA	54,489		SUNNYVALE CALIFORNIA	85,992
	ROSSLYN VIRGINIA	4,243		MARIETTA GEORGIA	8,106
12	WESTINGHOUSE ELECTRIC CORP	293,277 *		PLAINFIELD NEW JERSEY	1,526
	SUNNYVALE CALIFORNIA	85,818		WHITE SANDS MS NEW MEXICO	27,832
	ANNAPOLIS MARYLAND	2,290		DUGWAY UTAH	1,744
	BALTIMORE MARYLAND	99,179	23	G T E PRODUCTS CORP	192,997 *
	COCKEYSVILLE MARYLAND	506		T T PAC IS CALIFORNIA	11,100
	HUNT VALLEY MARYLAND	143		BURLINGAME CALIFORNIA	170
	LIMA OHIO	488		MOUNTAIN VIEW CALIFORNIA	13,342
	WRIGHT PATTERS OHIO	468		COLORADO SPRIN COLORADO	583
	MADISON PA	61		DANVERS MASS	714
	PITTSBURGH PA	8,141		NEEDHAM HEIGHT MASS	78,517
	WARMINSTER PA	30		SALEM MASS	470
	WEST MIFFLIN PA	96,153		WALTHAM MASS	380
13	RAYTHEON CO	266,373 *		WESTBOROUGH MASS	87,388
	GOLETA GERMANY	239		WHITE SANDS MS NEW MEXICO	323
	OXNARD CALIFORNIA	11,246	24	SPERRY CORP	162,690 *
	ANDOVER MASS	2,692		HUNTSVILLE ALABAMA	2,336
	BEDFORD MASS	15,139		PHOENIX ARIZONA	11,900
	LEXINGTON MASS	28,400		LOMPOC CALIFORNIA	4,633
	LOWELL MASS	1,227		SAN DIEGO CALIFORNIA	4,423
	NORTHBOROUGH MASS	4,600		CLEARWATER FLORIDA	1,422
	SUDSBURY MASS	362		SUDBURY MASS	94
	WALTHAM MASS	37,361		EGAN MINNESOTA	69
	WAYLAND MASS	2,745		MINNEAPOLIS MINNESOTA	65
	WEST ANDOVER MASS	96,091		ST PAUL MINNESOTA	11,612
	WAYNE NEW JERSEY	13,095		ALBUQUERQUE NEW MEXICO	1,421
	PORTSMOUTH RI	540		WHITE SANDS MS NEW MEXICO	1,131
	MCLEAN VIRGINIA	52,594		GREAT NECK NEW YORK	134,621
		42		HAWTHORNE NEW YORK	75
16	NORTHROP CORP	245,512 *		SOUTHAMPTON PA	2,033
	HUNTSVILLE ALABAMA	385		SALT LAKE CITY UTAH	638
	ANAHEIM CALIFORNIA	2,944		CHARLOTTESVILLE VIRGINIA	1,986
	HAWTHORNE CALIFORNIA	193,315		DAHLGREN VIRGINIA	862
	PALOS VERDES E CALIFORNIA	3,655		RESTON VIRGINIA	2,947
	ROLLING MEADOW ILLINOIS	5,248	25	R C A CORP	161,732 *
	NORWOOD MASS	39,965		T T PAC IS MASS	15,823
18	HONEYWELL INC	218,371 *		BURLINGTON NEW JERSEY	21,526
	WEST COVINA FRANCE	599		CAMDEN NEW JERSEY	35,784
	CLEARWATER CALIFORNIA	12,981		CHERRY HILL NEW JERSEY	100
	ST PETERSBURG FLORIDA	36,344		HIGHTSTOWN NEW JERSEY	3,286
	TAMPA FLORIDA	7,387		MOORESTOWN NEW JERSEY	103,366
	ANNAPOLIS MARYLAND	1,745		PRINCETON NEW JERSEY	1,369
	LEXINGTON MASS	7,166		WHITE SANDS MS NEW MEXICO	157
	BLOOMINGTON MINNESOTA	2,132		LANCASTER PA	153
	HOPKINS MINNESOTA	81,631		WARMINSTER PA	25
	MINNEAPOLIS MINNESOTA	25,750		SPRINGFIELD VIRGINIA	111
	MINNETONKA MINNESOTA	4,787			
	NEW BRIGHTON MINNESOTA	26,142			
	PLYMOUTH MINNESOTA	1,635			
	ROSEVILLE MINNESOTA	1,391			
	ST LOUIS PARK MINNESOTA	5,376			

- = MINUS AMOUNT (CANCELLATIONS EXCEED NEW AWARDS)

S = SMALL BUSINESS

**Table 2. Net Value of DOD Prime Contract Awards Over \$25,000  
for RDT&E to Business Firms: FY 1983  
(Continued)**

RANK	NAME OF CONTRACTOR AND LOCATION	THOUSANDS OF DOLLARS	RANK	NAME OF CONTRACTOR AND LOCATION	THOUSANDS OF DOLLARS
26	MORTON THICKOL INC HUNTSVILLE ALABAMA ELKTON MARYLAND BRIGHAM CITY UTAH	147,735 * 2,208 575 144,952	35	HARRIS CORP MELBOURNE FLORIDA PALM BAY FLORIDA ROCHESTER NEW YORK SYOSSET NEW YORK	91,514 * 41,245 49,984 176 109
27	I T T CORP PHOENIX ARIZONA COSTA MESA CALIFORNIA SAN DIEGO CALIFORNIA VAN NUYS CALIFORNIA FORT WAYNE INDIANA NUTLEY NEW JERSEY WRIGHT PATTERS OHIO ROANOKE VIRGINIA	146,981 * 65 79 140 3,565 4,186 136,720 88 2,138	36	AUTOMATION INDUSTRIES INC OXNARD CALIFORNIA EGLIN AFB FLORIDA SILVER SPRING MARYLAND	88,049 * 4,167 250 83,632
28	GRUMMAN AEROSPACE CORP IRVINE CALIFORNIA POINT MUGU CALIFORNIA BETHPAGE NEW YORK	131,781 * 65- 4,090 127,756	38	SCIENCE APPLICATIONS INC HUNTSVILLE ALABAMA TUCSON ARIZONA CHATSWORTH CALIFORNIA GOLETA CALIFORNIA HERMOSA BEACH CALIFORNIA IRVINE CALIFORNIA LA JOLLA CALIFORNIA MONTEREY CALIFORNIA NORTON AFB CALIFORNIA PALO ALTO CALIFORNIA PLEASANTON CALIFORNIA SAN DIEGO CALIFORNIA SANTA ANA CALIFORNIA COLORADO SPRIN COLORADO DENVER COLORADO ENGLEWOOD COLORADO FORT WALTON BE FLORIDA ORLANDO FLORIDA LAS VEGAS NEVADA HANOVER NH PRINCETON NEW JERSEY ALBUQUERQUE NEW MEXICO KIRTLAND AFB NEW MEXICO DAYTON OHIO WRIGHT PATTERS OHIO VALLEY FORGE PA WAYNE PA FORT HOOD TEXAS ARLINGTON VIRGINIA MCLEAN VIRGINIA NORFOLK VIRGINIA VIENNA VIRGINIA	67,422 * 9,015 696 84 440 3,158 533 20,570 58 2,600 119 109 5,580 26 198 372 243 501 30 859 120 40 1,732 75 3,452 1,400 84 33 255 788 10,865 1,970 1,417
29	PERCJET STRATEGIC PROPULSION CO SACRAMENTO CALIFORNIA	123,352 * 123,352	39	MOTOROLA INC SCOTTSDALE ARIZONA TEMPE ARIZONA SCHAUMBURG ILLINOIS	64,297 * 55,271 8,979 47
30	TEXTRON INC YUMA ARIZONA BELMONT CALIFORNIA IRVINE CALIFORNIA VALENCIA CALIFORNIA NICEVILLE FLORIDA PANAMA CITY FLORIDA NEW ORLEANS LOUISIANA BUFFALO NEW YORK NIAGARA FALLS NEW YORK WHEATFLD NEW YORK FORT WORTH TEXAS HURST TEXAS	116,426 * 2,173 4,205 40 65 1,845 7,469 1,119 7,329 4,397 916 86,513 355	40	WESTERN ELECTRIC CO INC VANDENBERG AFB CALIFORNIA HOLMDEL NEW JERSEY WHIPPANY NEW JERSEY GREENSBORO NCAR	62,750 * 6,707 1,910 25,801 28,332
31	SINGER CO LUKE AFB ARIZONA WILLIAMS AFB ARIZONA GLENDALE CALIFORNIA SAN MARCOS CALIFORNIA SUNNYVALE CALIFORNIA SILVER SPRING MARYLAND LITTLE FALLS NEW JERSEY WAYNE NEW JERSEY BINGHAMTON NEW YORK MOUNT VERNON NEW YORK WRIGHT PATTERS OHIO STATE COLLEGE PA	110,583 * 1,151 2,445 21,238 150 47 1,619 31,834 12,542 2,370 35,320 1,205 662	41	CALSPAN CORP BUFFALO NEW YORK ROME NEW YORK DAYTON OHIO ARNOLD ENGNG D TENNESSEE	58,168 * 17,620 127 789 39,652
32	AEROJET GENERAL CORP AZUSA CALIFORNIA DOWNEY CALIFORNIA NIMBUS CALIFORNIA SACRAMENTO CALIFORNIA	105,802 * 18,038 1,143 560 86,061	42	UNIDYNAMICS ST LOUIS INC ST LOUIS MISSOURI	57,433 * 57,433
33	FORD AEROSPACE & COMMUNICATIONS EL SINORE CALIFORNIA NEWPORT BEACH CALIFORNIA PALO ALTO CALIFORNIA SUNNYVALE CALIFORNIA COLORADO SPRIN COLORADO FORT DETRICK MARYLAND HOUSTON TEXAS	98,343 * 111 5,638 47,185 10,714 32,993 1,664 38	43	SANDERS ASSOCIATES INC MERRIMACK NH NASHUA NH NEW CASTLE NH	56,726 * 3,266 52,490 970
34	HERCULES INC WILMINGTON DELAWARE EGLIN AFB FLORIDA COLUMBIA MARYLAND MCGREGOR TEXAS MAGNA UTAH ROCKET CENTER WVA	94,862 * 100 371 166 1,027 91,720 1,478			

- = MINUS AMOUNT (CANCELLATIONS EXCEED NEW AWARDS)

S = SMALL BUSINESS

**Table 2. Net Value of DOD Prime Contract Awards Over \$25,000  
for RDT&E to Business Firms: FY 1983  
(Continued)**

RANK	NAME OF CONTRACTOR AND LOCATION	THOUSANDS OF DOLLARS	RANK	NAME OF CONTRACTOR AND LOCATION	THOUSANDS OF DOLLARS
44	TEXAS INSTRUMENTS INC RIDGECREST CALIFORNIA AUSTIN TEXAS DALLAS TEXAS LEWISVILLE TEXAS SHERMAN TEXAS	53,927 * 2,401 135 40,175 11,166 50		LITTON SYSTEMS INC COLLEGE PARK MARYLAND PASCAGOULA MISS MORRIS PLAINS NEW JERSEY MELVILLE NEW YORK ALEXANDRIA VIRGINIA BLACKSBURG VIRGINIA	2,414 1,573 150 609 437 36
45	I T E & WESTINGHOUSE JV NUTLEY NEW JERSEY	52,801 * 52,801	56	R & D ASSOCIATES LOS ANGELES CALIFORNIA MARINA DEL REY CALIFORNIA ALBUQUERQUE NEW MEXICO KIRTLAND AFB NEW MEXICO WHITE SANDS MS NEW MEXICO DAYTON OHIO WRIGHT PATTERS OHIO MCLEAN VIRGINIA NORFOLK VIRGINIA WARRENTON VIRGINIA	37,544 * 196 26,500 6,495 3,035 1,318
46	B D M CORP HUNTSVILLE ALABAMA WASHINGTON DC LAS VEGAS NEVADA ALBUQUERQUE NEW MEXICO KIRTLAND AFB NEW MEXICO WHITE SANDS MS NEW MEXICO DAYTON OHIO WRIGHT PATTERS OHIO MCLEAN VIRGINIA NORFOLK VIRGINIA WARRENTON VIRGINIA	49,631 * 249 2,283 98 808 3,490 4,551 2,619 155 857 32,643 169 1,709		57 E S L INC SUNNYVALE CALIFORNIA EGLIN AFB FLORIDA	36,393 * 36,336 57
47	EATON CORP SOUTHFIELD MICHIGAN DEER PARK NEW YORK FARMINGDALE NEW YORK MELVILLE NEW YORK	49,305 * 198 48,528 73 506	58	T A D COMMUNICATIONS CO NUTLEY NEW JERSEY	36,268 * 36,268
48	SVERDRUP TECHNOLOGY INC ARNOLD ENGG D TENNESSEE TULLAHOMA TENNESSEE	45,849 * 45,095 754	59	A A I CORP BALTIMORE MARYLAND COCKEYSVILLE MARYLAND	34,707 * 3,390 31,317
50	BENDIX CORP NORTH HOLLYWOOD CALIFORNIA SYLMAR CALIFORNIA FORT LAUDERDAL FLORIDA MISHAWAKA INDIANA SOUTH BEND INDIANA DAVENPORT IOWA BALTIMORE MARYLAND TOWSON MARYLAND EATONTOWN NEW JERSEY TETERBORG NEW JERSEY MCLEAN VIRGINIA	42,120 * 5,938 6,034 313 103 375 299 24,532 395 149 3,637 145	60	FAIRCHILD INDUSTRIES INC VANDENBERG AFB CALIFORNIA GERMANTOWN MARYLAND FARMINGDALE NEW YORK	33,116 * 210 2,081 30,825
52	COMPUTER SCIENCES CORP HUNTSVILLE GERMANY OXNARD ALABAMA POINT MUGU CALIFORNIA SAN DIEGO CALIFORNIA FORT WALTON BE FLORIDA FORT MONMOUTH NEW JERSEY MORESTOWN NEW JERSEY RED BANK NEW JERSEY ALBUQUERQUE NEW MEXICO HUNTINGDON PA WARMINSTER PA FALLS CHURCH VIRGINIA FORT EUSTIS VIRGINIA	41,238 * 688 5,029 2,625 57 475 160 2,297 1,605 796 5,571 528 1,737 17,714 1,956	61	EMERSON ELECTRIC CO ST LOUIS MISSOURI	31,287 * 31,287
			62	E SYSTEMS INC ST PETERSBURG FLORIDA DALLAS TEXAS GARLAND TEXAS GREENVILLE TEXAS SALT LAKE CITY UTAH FALLS CHURCH VIRGINIA	30,518 * 1,601 1,796 925 25,057 275 664
			63	TELEDYNE INDUSTRIES INC SAN DIEGO CALIFORNIA TOLEDO OHIO GARLAND TEXAS ALEXANDRIA VIRGINIA	28,318 * 19,113 8,313 449 443
			64	TELEDYNE BROWN ENGINEERING HUNTSVILLE ALABAMA	28,301 * 28,301
			65	KENTRON INTERNATIONAL INC YUMA ARIZONA CHINA LAKE CALIFORNIA DALLAS TEXAS	27,549 * 25,595 854 30 1,070
			66	F M C CORP ANNISTON ALABAMA SAN JOSE CALIFORNIA MINNEAPOLIS MINNESOTA	26,077 * 169 24,598 1,290
			68	HAZELTINE CORP BRAINTREE MASS GRAND VIEW ON NEW YORK GREENLAWN NEW YORK	25,719 * 2,400 94 23,225
			69	LOGICON INC SAN DIEGO CALIFORNIA SAN PEDRO CALIFORNIA WOODLAND HILLS CALIFORNIA LANHAM MARYLAND HANSOM AFB MASS LEXINGTON MASS WRIGHT PATTERS OHIO	25,255 * 2,127 18,727 1,807 430 122 303 98

\* = MINUS AMOUNT (CANCELLATIONS EXCEED NEW AWARDS)

S = SMALL BUSINESS

Table 2. Net Value of DOD Prime Contract Awards Over \$25,000  
for RDT&E to Business Firms: FY 1983  
(Continued)

RANK	NAME OF CONTRACTOR AND LOCATION	THOUSANDS OF DOLLARS	RANK	NAME OF CONTRACTOR AND LOCATION	THOUSANDS OF DOLLARS
	LOGICON INC		91	JAYCOR	S 15,218 *
	ALTUS AFB	325	DEL MAR	613	
	TINKER AFB	1,316	LOS ANGELES	74	
73	BOLT BERANEK & NEWMAN INC	22,797 *	SAN DIEGO	8,441	
	CANOGA PARK	91	SANTA BARBARA	54	
	SAN DIEGO	465	SANTA MONICA	435	
	NEW LONDON	105	COLORADO SPRIN	276	
	CAMBRIDGE	22,065	WASHINGTON	40	
	ARLINGTON	71	ALEXANDRIA	5,085	
75	SYSTEMS RESEARCH LABORATORIES INC	21,057 *	92	GLOBAL ASSOCIATES	14,945 *
	DAYTON	7,179		T T PAC IS	14,945
	WRIGHT PATTERS	13,447	94	BOOZ ALLEN & HAMILTON INC	14,623 *
	BROOKS AFB	322	SCOTT AFB	361	
	FALLS CHURCH	109	BETHESDA	12,676	
79	SYSTEM DEVELOPMENT CORP	20,342 *	FORT MEADE	80	
	HUNTSVILLE	5,071	HANSOM AFB	658	
	SAN DIEGO	48	ALBUQUERQUE	701	
	SANTA MONICA	3,920	ARLINGTON	147	
	WEST LONG BRAN	3,302	95	AMEX SYSTEMS INC	S 14,231 *
	DAYTON	943	FORT IRWIN	527	
	WARMINSTER	540	HAWTHORNE	126-	
	MCLEAN	6,518	SAN DIEGO	13,832	
80	WESTERN GEAR CORP	20,091 *	97	ELECTROSPACE SYSTEMS INC	13,505 *
	JAMESTOWN	20,091	DAYTON	899	
82	PLANNING RESEARCH CORP	18,674 *	RICHARDSON	12,606	
	OFFUTT AFB	8,440	98	THE ANALYTIC SCIENCES CORP	13,447 *
	FORT MONMOUTH	4,387	BATON ROUGE	65	
	MCLEAN	5,847	READING	13,063	
83	CONTROL DATA CORP	18,552 *	EVENDALE	26	
	T T PAC IS	2,221	ARLINGTON	46	
	UN KINGDOM	342-	MCLEAN	225	
	SAN DIEGO	55	99	SONICRAFT INC	S 13,363 *
	ATLANTA	98	CHICAGO	13,363	
	MINNEAPOLIS	16,520	100	HANSON R A CO INC	S 13,294 *
84	MAGNAVOX GOVT & INDUSTRIAL ELEC CO	18,080 *	SPOKANE	13,294	
	TORRANCE	10,485	101	BOEING VERTOL CO	12,944 *
	FORT WAYNE	5,889	PHILADELPHIA	12,238	
	MAHWAH	1,706	RIDLEY	25	
			RIDLEY PARK	681	
85	GENERAL RESEARCH CORP	16,990 *	102	BENDIX FIELD ENGINEERING CORP	12,940 *
	HUNTSVILLE	3,648	COLUMBIA	11,136	
	EL SEGUNDO	75	LAS VEGAS	1,304	
	SANTA BARBARA	6,880	MERCURY	500	
	WASHINGTON	34	103	BECHTEL NATIONAL INC	12,847 *
	FORT WALTON BE	3,132	SAN FRANCISCO	12,847	
	MCLEAN	3,221	104	MAXWELL LABORATORIES INC	S 12,641 *
86	AVCO EVERETT RESEARCH LABORATORY	16,861 *	SAN DIEGO	11,288	
	MAUI	5,706	KIRTLAND AFB	1,353	
	EVERETT	10,318	105	ULTRASYSTEMS INC	12,482 *
	SOMERVILLE	837	SIERRA VISTA	5,642	
87	KAMAN SCIENCES CORP	16,615 *	HAWTHORNE	673	
	SANTA BARBARA	4,876	IRVINE	5,027	
	TWENTYNINE PAL	30	NORTON AFB	1,140	
	COLORADO SPRIN	9,729	107	BURROUGHS CORP	11,979 *
	FORT KNOX	101	PAOLI	11,979	
	BEL AIR	47	108	SOLAR TURBINES INTERNATIONAL	11,795 *
	BURLINGTON	1,524	SAN DIEGO	11,795	
	ALBUQUERQUE	100			
	ARLINGTON	208			
88	ATLANTIC RESEARCH CORP	15,508 *			
	WHITE SANDS MS	151			
	ALEXANDRIA	7,237			
	GAINESVILLE	8,120			

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Table 2. Net Value of DOD Prime Contract Awards Over \$25,000  
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(Continued)

RANK	NAME OF CONTRACTOR AND LOCATION	THOUSANDS OF DOLLARS	RANK	NAME OF CONTRACTOR AND LOCATION	THOUSANDS OF DOLLARS
109	PHYSICS INTERNATIONAL CO SAN LEANDRO CALIFORNIA AKRON OHIO WADSWORTH OHIO	11,734 * 11,163 321 250	130	AEROJET ELECTRO SYSTEMS CO AZUSA CALIFORNIA	8,972 * 8,972
110	LITTLE ARTHUR D INC CAMBRIDGE MASS	11,652 * 11,652	131	BELL TECHNICAL OPERATIONS CORP SIERRA VISTA ARIZONA TUCSON ARIZONA	8,835 * 5,181 3,654
111	LORAL CORP SAN DIEGO CALIFORNIA YONKERS NEW YORK	11,492 * 291 11,201	134	PERKIN ELMER CORP POMONA CALIFORNIA DANBURY CONN NORWALK CONN WILTON CONN	8,507 * 669 5,662 1,704 189
113	SYSTEM PLANNING CORP ARLINGTON VIRGINIA	S 11,248 * 11,248		ROCKVILLE MARYLAND EDEN PRAIRIE MINNESOTA TONOPAH NEVADA	65 158 40
115	URS BERGER SAN BERNARDINO CALIFORNIA SEATTLE WASHINGTON	10,446 * 5,746 4,700	135	HARSCO CORP YORK PA	8,399 * 8,399
117	SOFTech INC WALTHAM MASS DAYTON OHIO WRIGHT PATTERS OHIO	S 10,226 * 7,719 497 2,010	136	G A TECHNOLOGIES INC SAN DIEGO CALIFORNIA	8,339 * 8,339
118	INTERSTATE ELECTRONICS CORP ANAHEIM CALIFORNIA WARMINSTER PA	10,201 * 10,117 84	137	NICHOLS RESEARCH CORP HUNTSVILLE ALABAMA	S 8,326 * 8,326
119	UTL CORP DALLAS TEXAS	S 10,046 * 10,046	138	TRACOR INC SAN DIEGO CALIFORNIA NEW LONDON CONN JACKSONVILLE FLORIDA LEXINGTON PARK MARYLAND ROCKVILLE MARYLAND AUSTIN TEXAS ARLINGTON VIRGINIA	8,263 * 54 400 50 100 576 8,924 159
120	NORDEN SYSTEMS INC NORWALK CONN HOLLOWMAN AFB NEW MEXICO MELVILLE NEW YORK	9,998 * 8,467 200 1,331	139	DYNALECTRON CORP HOLLOWMAN AFB NEW MEXICO KIRTLAND AFB NEW MEXICO WRIGHT PATTERS OHIO FORT WORTH TEXAS	8,177 * 5,079 2,730 251 117
121	GENERAL MOTORS CORP GOLETA CALIFORNIA HOMECROFT INDIANA INDIANAPOLIS INDIANA OAK CREEK WISCONSIN	9,988 * 5,987 47 3,885 69	140	AMERICAN ELECTRONIC LABS INC LANSDALE PA MONTGOMERYVILL PA	8,020 * 7,860 160
123	ITEK CORP SUNNYVALE CALIFORNIA LEXINGTON MASS	9,855 * 1,755 8,100	141	SYSTEMS & APPLIED SCIENCES CORP RIVERDALE MARYLAND	S 7,996 * 5,354
124	INTERMETRICS INC LONG BEACH CALIFORNIA BETHESDA MARYLAND CAMBRIDGE MASS WRIGHT PATTERS OHIO WARMINSTER PA	S 9,678 * 2,385 688 5,347 153 905		HANSCOM AFB MASS LEXINGTON MASS DAYTON OHIO WRIGHT PATTERS OHIO	1,014 141 656 829
125	WILLIAMS INTERNATIONAL CORP WALLED LAKE MICHIGAN	9,669 * 9,669	142	GOULD INC WILLIAMS AFB ARIZONA EL MONTE CALIFORNIA SAN JOSE CALIFORNIA ROLLING MEADOW ILLINOIS GLEN BURNIE MARYLAND CLEVELAND OHIO LANGHORNE PA	7,907 * 1,364 1,073 37 594 2,989 1,190 660
127	ELECTRONIC WARFARE ASSOCIATES MCLEAN VIRGINIA	S 9,511 * 9,511	143	H R B SINGER INC STATE COLLEGE PA	7,683 * 7,683
128	MISSION RESEARCH CORP SAN DIEGO CALIFORNIA SANTA BARBARA CALIFORNIA COLORADO SPRIN COLORADO ALBUQUERQUE NEW MEXICO ALEXANDRIA VIRGINIA	S 9,399 * 1,369 5,543 652 1,792 143	144	GOODYEAR AEROSPACE CORP LITCHFIELD PAR ARIZONA AKRON OHIO	7,583 * 3,856 3,725
129	AEROJET ORDNANCE & MFG CO DOWNEY CALIFORNIA JONESBORO TENNESSEE	9,090 * 898 8,392	145	HYCOR INC WOBURN MASS	S 7,500 * 7,500

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**Table 2. Net Value of DOD Prime Contract Awards Over \$25,000  
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(Continued)**

RANK	NAME OF CONTRACTOR AND LOCATION	THOUSANDS OF DOLLARS	RANK	NAME OF CONTRACTOR AND LOCATION	THOUSANDS OF DOLLARS
146	MAGNAVOX ADVANCED PROD & SYS CO TORRANCE	7,436 *	167	E G & G WASHINGTON ANAL SVC CEN ROCKVILLE	5,574 *
		7,436		ALBUQUERQUE	5,087
147	ARES INC PORT CLINTON	OHIO	S	7,251 *	487
				7,251	
148	COMPTEK RESEARCH INC GOLETA	CALIFORNIA		7,231 *	
	BUFFALO	NEW YORK		274	
	NORFOLK	VIRGINIA		721	
				6,236	
150	DYNAMICS RESEARCH CORP WILMINGTON	MASS		7,127 *	
				7,127	
151	CUBIC CORP SAN DIEGO	CALIFORNIA		6,999 *	
				6,999	
152	TECHNOLOGY SERVICE CORP SANTA MONICA	CALIFORNIA	S	6,944 *	
	TRUMBULL	CONN		6,087	
	SILVER SPRING	MARYLAND		169	
				688	
153	QUEST RESEARCH CORP DAYTON	OHIO	S	6,865 *	
	MCLEAN	VAIRGINIA		1,433	
	WARRENTON	VIRGINIA		4,832	
				600	
155	SUMMA CORP CULVER CITY	CALIFORNIA		6,668 *	
				6,668	
157	VARIAN ASSOCIATES PALO ALTO	CALIFORNIA		6,354 *	
	SANTA CLARA	CALIFORNIA		3,322	
	BEVERLY	MASS		985	
	GOULCESTER	MASS		458	
				1,569	
158	DIKEWOOD INDUSTRIES INC ALBUQUERQUE	NEW MEXICO	S	6,284 *	
				6,284	
159	CUMMINS ENGINE CO INC COLUMBUS	INDIANA		6,126 *	
				6,126	
160	GENTEX CORP CARBONDALE	PA		6,079 *	
				6,079	
161	B D M SERVICES CO FORT KNOX	KENTUCKY		6,032 *	
	NEW SHREWSBURY	NEW JERSEY		710	
	SHREWSBURY	NEW JERSEY		3,577	
	KIRTLAND AFB	NEW MEXICO		210	
	WHITE SANDS MS	NEW MEXICO		1,361	
				174	
162	HUGHES HELICOPTERS INC CULVER CITY	CALIFORNIA		5,940 *	
				5,940	
163	LINKABIT CORP SAN DIEGO	CALIFORNIA		5,806 *	
	MCLEAN	VIRGINIA		5,382	
				424	
164	SYSTEMS SCIENCE & SOFTWARE LA JOLLA	CALIFORNIA	S	5,783 *	
	SAN DIEGO	CALIFORNIA		2,932	
				2,851	
165	SANDERS INTERNATIONAL TEL & TEL JV NUTLEY	NEW JERSEY		5,752 *	
				5,752	
166	ALLIED CORP WESTLAKE VILLA	CALIFORNIA		5,713 *	
	MORRISTOWN	NEW JERSEY		5,379	
	MOUNT BETHEL	NEW JERSEY		196	
				138	
167	E G & G WASHINGTON ANAL SVC CEN ROCKVILLE	MARYLAND		5,574 *	
	ALBUQUERQUE	NEW MEXICO		5,087	
168	SCHAFER W J ASSOCIATES INC CANOGA PARK	CALIFORNIA	S	5,468 *	
	WAKEFIELD	MASS		300	
	ARLINGTON	VIRGINIA		5,068	
169	SYSTEMS CONTROL TECHNOLOGY INC HUNTSVILLE	ALABAMA		5,463 *	
	MARTINEZ	CALIFORNIA		320	
	PALO ALTO	CALIFORNIA		385	
	FORT WALTON BE	FLORIDA		4,675	
				103	
171	BETAC CORP BURLINGTON	MASS	S	5,383 *	
	ARLINGTON	VIRGINIA		507	
172	ARGO SYSTEMS INC LOS ANGELES	CALIFORNIA	S	5,376 *	
	PALO ALTO	CALIFORNIA		175	
	SUNNYVALE	CALIFORNIA		2,214	
173	TELEDYNE INC HOLLISTER	CALIFORNIA		2,987	
	NORTHridge	CALIFORNIA		51	
	SAN DIEGO	CALIFORNIA		2,605	
	TIMONIUM	MARYLAND		260	
	WALTHAM	MASS		1,970	
	GARLAND	TEXAS		81	
174	COMMAND CONTROL & COMMUNICATION TORRANCE	CALIFORNIA	S	5,364 *	
				5,364	
175	STEARNS ROGER INC VANDENBERG AFB	CALIFORNIA		5,313 *	
				5,313	
176	O R I INC SILVER SPRING	MARYLAND		5,312 *	
				5,312	
178	ARINC RESEARCH CORP SAN DIEGO	CALIFORNIA		5,175 *	
	SANTA ANA	CALIFORNIA		1,024	
	ANNAPOLIS	MARYLAND		3,245	
				906	
179	P D A ENGINEERING INC SANTA ANA	CALIFORNIA	S	5,156 *	
				5,156	
180	MANTECH INTERNATIONAL CORP HUNTSVILLE	ALABAMA		5,142 *	
	FORT HUACHUCA	ARIZONA		492	
	LAWNDALE	CALIFORNIA		145	
	KUNIA	HAWAII		1,206	
	ANNAPOLIS	MARYLAND		860	
	ROCKVILLE	MARYLAND		155	
	LIVINGSTON	NEW JERSEY		2,035	
	ARLINGTON	VIRGINIA		165	
				84	
181	ANALYTICS INC NEW SHREWSBURY	NEW JERSEY	S	5,120 *	
	TINTON FALLS	NEW JERSEY		81	
	DAYTON	OHIO		711	
	WILLOW GROVE	PA		38	
	MCLEAN	VIRGINIA		3,751	
				539	
182	SANTA BARBARA RESEARCH CENTER GOLETA	CALIFORNIA		5,076 *	
				5,076	
183	GILBERT ASSOCIATES READING	PA		5,000 *	
				5,000	

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(Continued)**

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184	SPARTA INC HUNTSVILLE LA JOLLA LAGUNA HILLS LEXINGTON MCLEAN	S 4,934 * 3,974 250 350 188 172	209	BALL CORP BOULDER	COLORADO 4,072 * 4,072
185	MARQUARDT CO VAN NUYS	CALIFORNIA 4,922 * 4,922	210	O A O CORP EL SEGUNDO GREENBELT	CALIFORNIA 3,953 * MARYLAND 3,537 416
186	EAGLE TECHNOLOGY INC FULLERTON ORLANDO ARLINGTON	S 4,853 * 4,122 310 421	212	PIASECKI AIRCRAFT CORP PHILADELPHIA SHARON HILL	PA 3,936 * PA 1,618 2,318
189	XEROX CORP PALO ALTO PASADENA WEBSTER ARLINGTON	CALIFORNIA 4,808 * 374 4,135 51 248	215	ENVIRO CONTROL INC ROCKVILLE	MARYLAND 3,837 * 3,837
190	TRIAD MICROSYSTEMS INC HUNTSVILLE SANTA ANA	ALABAMA 4,806 * 1,857 CALIFORNIA 2,949	216	XEROX ELECTRO OPTICAL SYSTEMS INC PASADENA	CALIFORNIA 3,807 * 3,807
191	ACUREX CORP MOUNTAIN VIEW	CALIFORNIA 4,792 * 4,792	217	UNIVERSAL ENERGY SYSTEMS INC DAYTON WRIGHT PATTERS	OHIO 3,789 * 2,922 867
192	E G & G INC SUNNYVALE ROCKVILLE WAREHAM ALBUQUERQUE	CALIFORNIA 4,774 * 46 MARYLAND 4,418 MASS 196 NEW MEXICO 114	218	UNITED SPACE BOOSTERS INC VANDENBERG AFB	CALIFORNIA 3,712 * 3,712
193	ANALYTICAL SYSTEMS ENGR CORP BURLINGTON	MASS 4,769 * 4,769	219	PACIFIC SIERRA RESEARCH CORP LOS ANGELES SANTA MONICA ARLINGTON	CALIFORNIA 3,710 * 245 CALIFORNIA 3,252 VIRGINIA 213
194	LOS ALAMOS TECHNICAL ASSOCIATES LOS ALAMOS	S 4,642 * 4,642	220	FOSTER MILLER ASSOCIATES INC WALTHAM	MASS 3,706 * 3,706
195	E S D CORP SAN JOSE SANTA CLARA	CALIFORNIA 4,631 * 2,873 CALIFORNIA 1,758	221	METRIC SYSTEMS CORP FORT WALTON BE	FLORIDA 3,703 * 3,703
196	ERTEC WESTERN INC LONG BEACH	CALIFORNIA 4,600 * 4,600	222	EDO CORP COLLEGE POINT	NEW YORK 3,682 * 3,682
200	S CUBED LA JOLLA SAN DIEGO ALBUQUERQUE RESTON	S 4,415 * 3,015 CALIFORNIA 728 NEW MEXICO 597 VIRGINIA 75	223	KOLLMORGEN CORP NORTHAMPTON	MASS 3,647 * 3,647
201	BALL BROS RESEARCH CORP BOULDER	COLORADO 4,389 * 4,389	224	ENSCO INC INDIAN HARBOUR NORFOLK SPRINGFIELD	FLORIDA 3,626 * VIRGINIA 2,015 25 VIRGINIA 1,588
205	TECHNOLOGY DEVELOPMENT CORP CALIF ARLINGTON	S 4,275 * 4,275	225	SUPPORT SYSTEMS ASSOCIATES INC HANSCOM AFB DAYTON WRIGHT PATTERS	MASS 3,611 * OHIO 870 OHIO 223 OHIO 2,518
206	INCO INC COLORADO SPRIN DAYTON WRIGHT PATTERS MCLEAN	S 4,270 * 2,578 OHIO 32 OHIO 180 VIRGINIA 1,480	226	V S E CORP OXNARD SAN DIEGO ALEXANDRIA	CALIFORNIA 3,611 * CALIFORNIA 3,033 VIRGINIA 49 VIRGINIA 529
207	ANALYSIS & COMPUTER SYSTEMS INC BEDFORD	MASS 4,201 * 4,201	227	APPLIED RESEARCH INC HUNTSVILLE LOS ANGELES PLAINVIEW	ALABAMA 3,606 * CALIFORNIA 2,593 710 NEW YORK 305
208	B D M MANAGEMENT SERVICE CO KIRTLAND AFB	NEW MEXICO 4,122 * 4,122	228	PAR TECHNOLOGY CORP INGLEWOOD COLORADO SPRIN NEW CITY NEW HARTFORD WARMINSTER	CALIFORNIA 3,571 * COLORADO 488 400 NEW YORK 95 NEW YORK 2,540 PA 48
			229	PATTERN ANALYSIS & RECOGNITION CO ROME	S 3,561 * NEW YORK 3,561

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(Continued)

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230	INSTRUMENTATION TECHNICAL ENGINEER S BELTSVILLE MARYLAND	3,540 * 3,540	256	CINCINNATI ELECTRONICS CORP CINCINNATI OHIO	3,041 * 3,041
231	SYNOPTIC SYSTEMS CORP FALLS CHURCH VIRGINIA	3,525 * 3,525	257	DYNETICS INC HUNTSVILLE FORT WALTON BE ALABAMA FLORIDA	S 3,034 * 2,156 676
232	BRUNSWICK CORP COSTA MESA CALIFORNIA DE LAND FLORIDA LINCOLN NEBRASKA WILLARD OHIO MARION VIRGINIA	3,518 * 1,404 1,207 323 272 312	258	NEW TECHNOLOGY INC HUNTSVILLE ALABAMA	S 3,027 * 3,027
235	DOW CORNING CORP MIDLAND MICHIGAN	3,471 * 3,471	259	C T E C FALLS CHURCH MCLEAN VIRGINIA VIRGINIA	S 3,008 * 70 2,938
236	FIGGIE INTERNATIONAL INC SIERRA MADRE CALIFORNIA HUNTINGTON STA NEW YORK	3,412 * 185 3,227	262	SYSTEMS EXPLORATION INC MONTEREY CALIFORNIA SAN DIEGO CALIFORNIA	S 2,943 * 35 2,908
238	DAYRON CORP ORLANDO FLORIDA	S 3,376 * 3,376	263	SYNECTICS CORP FAIRFAX VIRGINIA	S 2,923 * 2,923
239	HORIZONS TECHNOLOGY INC SAN DIEGO CALIFORNIA MCLEAN VIRGINIA	S 3,370 * 3,222 148	265	CALCULON CORP MIDDLETON NEW JERSEY SHREWSBURY NEW JERSEY TINTON FALLS NEW JERSEY PHILADELPHIA PA	S 2,899 * 1,839 450 25 585
240	SEMCOR INC FARMINGDALE NEW JERSEY MORESTOWN NEW JERSEY NEPTUNE NEW JERSEY WALL NEW JERSEY WARMINSTER PA	S 3,369 * 700 2,205 45 289 130	266	XONTECH INC LOS ANGELES CALIFORNIA VAN NUYS CALIFORNIA	S 2,866 * 1,791 1,095
241	SPACE DATA CORP TEMPE ARIZONA	S 3,362 * 3,362	268	WESTERN RESEARCH CORP SAN DIEGO CALIFORNIA	S 2,825 * 2,825
243	DIGITAL EQUIPMENT CORP GERMANTOWN MARYLAND HUDSON NH WARRENTON VIRGINIA	3,329 * 95 3,184 50	269	WEIDLINGER ASSOCIATES MENLO PARK CONSULT ENGR CALIFORNIA NEW YORK NEW YORK	S 2,804 * 285 2,549
245	CONTINENTAL ELECT MFG CO A TEX COR S DALLAS TEXAS	3,286 * 3,286	270	GENERAL INSTRUMENT CORP HICKSVILLE NEW YORK	2,763 * 2,763
247	ASSURANCE TECHNOLOGY CORP CARLISLE MASS	S 3,284 * 3,284	271	SCOPE ELECTRONICS INC RESTON VIRGINIA	2,719 * 2,719
248	CALIFORNIA RESEARCH & TECHNOLOGY CHATSWORTH CALIFORNIA WOODLAND HILLS CALIFORNIA	S 3,257 * 70 3,187	274	ANALYTIX ELECTRONICS SYSTEMS INC HUDSON NH NASHUA NH	S 2,689 * 1,405 1,284
249	PERCEPTRONICS INC WOODLAND HILLS CALIFORNIA	S 3,220 * 3,220	277	SARGENT FLETCHER CO EL MONTE CALIFORNIA	2,671 * 2,671
251	TITAN SYSTEMS INC LA JOLLA CALIFORNIA SAN DIEGO CALIFORNIA COLORADO SPRIN COLORADO BOSTON MASS MCLEAN VIRGINIA	S 3,150 * 1,349 138 98 59 1,507	278	ADVANCED INFORMATION & DECN SYS LOS ALTOS CALIFORNIA MOUNTAIN VIEW CALIFORNIA	S 2,641 * 110 2,531
253	A M GENERAL CORP DETROIT MICHIGAN WAYNE MICHIGAN	3,079 * 168 2,911	280	D B A SYSTEMS INC MELBOURNE FLORIDA	S 2,603 * 2,603
255	ANALYSIS & TECHNOLOGY INC STONINGTON CONN ARLINGTON VIRGINIA VIRGINIA BEACH VIRGINIA	3,044 * 2,630 281 133	281	VERAC INC SAN DIEGO CALIFORNIA ALBUQUERQUE NEW MEXICO	S 2,578 * 1,838 740
			283	PLANNING SYSTEMS INC MCLEAN VIRGINIA	S 2,565 * 2,565
			284	ADVANCED TECHNOLOGY INC FORT RILEY KANSAS ARLINGTON VIRGINIA MCLEAN VIRGINIA	2,537 * 63 253 2,221

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(Continued)

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285	ROHM & HAAS CO HUNTSVILLE SPRING HOUSE	2,533 * 273 2,260	319	MARK RESOURCES INC MARINA DEL REY SANTA MONICA	CALIFORNIA CALIFORNIA	S 2,075 * 496 1,579
286	FLIGHT SYSTEMS INC CHINA LAKE NEWPORT BEACH HOLLOWAY AFB WHITE SANDS MS	2,530 * 117 1,126 42 1,245	320	HENNINGSTON DURHAM RICHARDSON SANTA BARBARA	CALIFORNIA	2,051 * 2,051
289	TECHDYN SYSTEMS CORP RED BANK ALEXANDRIA	2,518 * 1,814 704	321	MCMULLEN JOHN J ASSOCIATES INC ARLINGTON	VIRGINIA	2,050 * 2,050
291	I T T GILFILLAN INC VAN NUYS	2,469 * 2,469	322	SPECIAL METALS CORP NEW HARTFORD	NEW YORK	2,048 * 2,048
292	COMPUTER CORP OF AMERICA CAMBRIDGE	S 2,431 * 2,431	324	ADVANCED RESEARCH & APPL CORP SUNNYVALE	CALIFORNIA	S 1,998 * 1,998
294	WASHINGTON PATROL SERVICE INC T T PAC IS	S 2,405 * 2,405	325	OPTI METRICS INC ANN ARBOR WHITE SANDS MS	MICHIGAN NEW MEXICO	S 1,950 * 622 1,328
295	KETRON INC PHILADELPHIA WAYNE ARLINGTON	S 2,403 * 100 625 1,678	327	VECTOR RESEARCH INC BETHESDA ANN ARBOR	MARYLAND MICHIGAN	S 1,930 * 337 1,593
297	SACHS FREEMAN ASSOCIATES INC WASHINGTON BLADENSBURG BOWIE	S 2,369 * 161 129 2,079	328	SYSCON CORP TUCSON SAN DIEGO ALBUQUERQUE	ARIZONA CALIFORNIA NEW MEXICO	1,886 * 230 544 1,112
302	LITTON INDUSTRIES INC TEMPE SAN CARLOS COLLEGE PARK WILLIAMSPORT	2,278 * 1,221 171 771 115	329	PACER SYSTEMS INC BURLINGTON FORT WASHINGTON ARLINGTON	MASS PA VIRGINIA	S 1,862 * 303 1,414 165
303	STORAGE TECHNOLOGY CORP LOUISVILLE	2,235 * 2,235	331	MAC AULAY BROWN INC DAYTON FAIRBORN	OHIO OHIO	S 1,871 * 88 1,763
304	T C O M CORP COLUMBIA	2,235 * 2,235	333	MATHEMATICAL SCIENCE BELLEVUE	NORTHWEST INC WASHINGTON	1,866 * 1,866
306	I R T CORP SAN DIEGO	S 2,209 * 2,209	334	SPACE COMMUNICATIONS CO GAIITHERSBURG	MARYLAND	1,857 * 1,857
307	AUTOMATED SCIENCES GROUP INC MANHATTAN BEAC SILVER SPRING	S 2,164 * 200 1,964	337	ANACAPA SCIENCES INC DOthan SANTA BARBARA	ALABAMA CALIFORNIA	S 1,846 * 1,327 519
308	TELEDYNE GEOTECH GARLAND ALEXANDRIA ARLINGTON	2,160 * 340 75 1,745	338	GEO CENTERS INC SUITLAND NEEDHAM HEIGHT NEWTON UPPER F DOVER	MARYLAND MASS MASS NEW JERSEY	S 1,845 * 30 235 1,528 52
314	SPECTRA RESEARCH SYSTEMS INC HUNTSVILLE IRVINE NEWPORT BEACH	S 2,127 * 1,590 87 450	339	T V I ENERGY CORP BELTSVILLE KENSINGTON	MARYLAND MARYLAND	S 1,837 * 164 1,673
315	VITRONICS INC FORT MONMOUTH	S 2,121 * 2,121	340	EFFECTS TECHNOLOGY INC SANTA BARBARA	CALIFORNIA	1,831 * 1,831
317	I L C DOVER FREDERICA	2,088 * 2,088	341	VEDA INC POINT MUGU DAYTON SOUTHAMPTON ARLINGTON	CALIFORNIA OHIO PA VIRGINIA	S 1,818 * 112 618 292 796
318	RAYTHEON SERVICE CO BEDFORD WRIGHT PATTERS ARLINGTON	2,084 * 1,644 410 30	342	FAIRCHILD CAMERA & INSTRUMENT CORP PALO ALTO SYOSSET	CALIFORNIA NEW YORK	1,816 * 110 1,706

- = MINUS AMOUNT (CANCELLATIONS EXCEED NEW AWARDS)

S = SMALL BUSINESS

**Table 2. Net Value of DOD Prime Contract Awards Over \$25,000  
for RDT&E to Business Firms: FY 1983  
(Continued)**

RANK	NAME OF CONTRACTOR AND LOCATION	THOUSANDS OF DOLLARS	RANK	NAME OF CONTRACTOR AND LOCATION	THOUSANDS OF DOLLARS
344	LOCKHEED ELECTRONICS CO INC ORLANDO FLORIDA DENVILLE NEW JERSEY PLAINFIELD NEW JERSEY	1,811 * 450 553 608	368	OCEAN DATA SYSTEMS INC ROCKVILLE MARYLAND	S 1,532 * 1,532
345	TELEDYNE CONTROLS LOS ANGELES CALIFORNIA	1,800 * 1,800	369	AERONAUTICAL RESEARCH ASSOCIATES PRINCETON NEW JERSEY	S 1,531 * 1,531
347	PHYSICAL SCIENCES CORP ANDOVER MASS WAKEFIELD MASS WOBURN MASS	S 1,775 * 324 59 1,392	371	DEFENSE SYSTEMS INC ARLINGTON VIRGINIA MCLEAN VIRGINIA	S 1,525 * 276 1,249
348	FREQUENCY ELECTRONICS INC HYDE PARK NEW YORK MITCHELL AFB NEW YORK MITCHELLSVILLE NEW YORK NEW HYDE PARK NEW YORK	S 1,769 * 1,350 140 89 190	372	APPLIED TECHNOLOGY ASSOCIATES INC SUNNYVALE CALIFORNIA ALBUQUERQUE NEW MEXICO KIRTLAND AFB NEW MEXICO	S 1,524 * 159 80 1,285
350	AMERICAN AIRLINES INC FORT WORTH TEXAS	1,705 * 1,705	373	TEKTRONIX INC BEAVERTON OREGON	1,510 * 1,510
351	GEODYNAMICS CORP SANT. BARBARA CALIFORNIA	S 1,703 * 1,703	374	IRVINE SENSORS CORP COSTA MESA CALIFORNIA	S 1,500 * 1,500
354	AERODYNE RESEARCH INC BEDFORD MASS BILLERICA MASS	S 1,683 * 537 1,146	375	ATLANTIC ANALYSIS CORP NORFOLK VIRGINIA	S 1,478 * 1,478
355	UNIVOX CALIFORNIA CO FAIRFAX VIRGINIA	S 1,678 * 1,678	376	OPTIC ELECTRONIC CORP DALLAS TEXAS	1,478 * 1,478
356	SUMMIT RESEARCH CORP GAITHERSBURG MARYLAND	S 1,675 * 1,675	377	KERNCO DANVERS MASS	S 1,469 * 1,469
358	ALTUS CORP SAN JOSE CALIFORNIA	S 1,657 * 1,657	379	FIBER MATERIALS INC BIDDEFORD MAINE	S 1,464 * 1,464
359	ARETE ASSOCIATES INC ENCINO CALIFORNIA SANTA MONICA CALIFORNIA	S 1,656 * 1,600 56	380	ELECTRONIC ASSOCIATES INC WARREN MICHIGAN WEST LONG BRAN NEW JERSEY	S 1,459 * 123 1,336
360	RAIL CO INC ARLINGTON VIRGINIA	S 1,649 * 1,649	382	SYSTEMS PLANNING & ANALYSIS INC ARLINGTON VIRGINIA FALLS CHURCH VIRGINIA	S 1,457 * 72 1,385
361	ENERGY RESEARCH CORP BETHEL CONN DANBURY CONN	1,635 * 1,067 568	383	APPLIED SCIENCE ASSOCIATES INC APEX NCAR VALENCIA PA EL PASO TEXAS FORT BLISS TEXAS	S 1,450 * 40 1,273 87 50
362	TELEPHONICS CORP HUNTINGTON NEW YORK	1,613 * 1,613	384	HAYES INTERNATIONAL CORP BIRMINGHAM ALABAMA LEEDS ALABAMA	1,450 * 860 590
363	REL INC BOYNTON BEACH FLORIDA	S 1,597 * 1,597	385	OCEAN TECHNOLOGY INC BURBANK CALIFORNIA	1,449 * 1,449
364	CACI INC FEDERAL WASHINGTON DC MECHANICSBURG PA ARLINGTON VIRGINIA	1,565 * 67 88 1,410	386	ANAMET LABORATORIES INC SAN CARLOS CALIFORNIA KIRTLAND AFB NEW MEXICO WRIGHT PATTERS OHIO	S 1,447 * 31 270 1,146
365	ANALYTIC DECISIONS INC ARLINGTON VIRGINIA	S 1,555 * 1,555	387	GENERAL ATRONICS CORP PHILADELPHIA PA	1,433 * 1,433
366	ROME RESEARCH CORP GRIFFISS AFB NEW YORK NEW HARTFORD NEW YORK ROME NEW YORK	S 1,543 * 50 1,244 249	388	CONTEL INFORMATION SYSTEMS INC BETHESDA MARYLAND FAIRFAX VIRGINIA VIENNA VIRGINIA	1,421 * 711 586 124
367	INTERNATIONAL LASER SYSTEMS INC ORLANDO FLORIDA KIRTLAND AFB NEW MEXICO	1,533 * 533 1,000	389	SCIENCE & ENGINEERING ASSOCIATES DENVER COLORADO ALBUQUERQUE NEW MEXICO MCLEAN VIRGINIA SEATTLE WASHINGTON	S 1,410 * 50 489 273 598

- \* MINUS AMOUNT (CANCELLATIONS EXCEED NEW AWARDS)  
S = SMALL BUSINESS

Table 2. Net Value of DOD Prime Contract Awards Over \$25,000  
for RDT&E to Business Firms: FY 1983  
(Continued)

RANK	NAME OF CONTRACTOR AND LOCATION	THOUSANDS OF DOLLARS	RANK	NAME OF CONTRACTOR AND LOCATION	THOUSANDS OF DOLLARS				
390	B K DYNAMICS INC SAN DIEGO ROCKVILLE	CALIFORNIA MARYLAND	S	1,404 *	413 DENELCOR INC DENVER	COLORADO	S	1,284 *	1,284
				197					
				1,207					
391	UNIVERSAL TECHNOLOGY CORP DAYTON WRIGHT PATTERS SEATTLE	OHIO OHIO WASHINGTON	S	1,397 *	416 AMPLEX CORP REDWOOD CITY	CALIFORNIA		1,255 *	1,255
				1,087					
				262					
				48					
392	TETRA TECH INC PASADENA SAN DIEGO WASHINGTON ARLINGTON	CALIFORNIA CALIFORNIA DC VIRGINIA		1,395 *	419 YOUNG ARTHUR & CO WASHINGTON	DC		1,242 *	1,242
				402					
				640					
				143					
				210					
393	FAIRCHILD SPACE & ELECTRONICS CO GALESVILLE GERMANTOWN	MARYLAND MARYLAND		1,391 *	420 FAIRCHILD WESTON SYSTEMS INC SARASOTA SYOSSET	FLORIDA NEW YORK		1,239 *	1,239
				141					
				1,250					
394	DELEX SYSTEMS INC VIENNA	VIRGINIA	S	1,374 *	421 T S C CORP MARION	MASS	S	1,233 *	1,233
				1,374					
395	MEASUREMENT CONCEPT CORP ROME	NEW YORK	S	1,372 *	422 NORTHWESTERN MOTOR CO EAU CLAIRE	WISCONSIN		1,207 *	1,207
				1,372					
396	TECHNOLOGY INC DAYTON BROOKS AFB SAN ANTONIO	OHIO TEXAS TEXAS	S	1,361 *	423 RESDEL ENGINEERING CORP ARCADIA	CALIFORNIA	S	1,204 *	1,204
				322					
				945					
				94					
397	MICROWAVE ASSOCIATES INC BURLINGTON	MASS		1,360 *	425 COLONEY WAYNE H CO INC TALLAHASSEE	FLORIDA	S	1,199 *	1,199
				1,360					
398	BEDFORD RFSEARCH ASSOCIATES INC HANSOM AFB	MASS	S	1,348 *	426 PATEL ENTERPRISES INC HUNTSVILLE	ALABAMA	S	1,199 *	1,199
				1,348					
399	SPACE VECTOR CORP NORTH RIDGE	CALIFORNIA		1,334 *	427 HUMAN FACTORS RESEARCH INC GOLETA	CALIFORNIA	S	1,195 *	1,195
				1,334					
400	STENCEL AERO ENGINEERING CORP ARDEN ASHEVILLE	NCAR NCAR		1,332 *	428 MARINETTE MARINE CORP MARINETTE	WISCONSIN	S	1,194 *	1,194
				304					
				1,028					
402	WATKINS JOHNSON CO SAN JOSE	CALIFORNIA		1,326 *	429 PHYSICAL DYNAMICS INC LA JOLLA BELLEVUE	CALIFORNIA WASHINGTON	S	1,190 *	681
				1,326					509
403	BATTELLE COLUMBUS LABORATORIES COLUMBUS	OHIO		1,324 *	430 PROSPECTIVE DECISION MODELS INC BEACHWOOD	OHIO	S	1,187 *	1,187
				1,324					
404	SPARTON CORP JACKSON	MICHIGAN		1,323 *	432 RADIAN CORP AUSTIN	TEXAS		1,185 *	1,185
				1,323					
406	PHOTON RESEARCH ASSOCIATES LA JOLLA	CALIFORNIA	S	1,307 *	434 BAIRD CORP BEDFORD	MASS	S	1,178 *	1,178
				1,307					
408	OPTICAL SCIENCES CO PLACENTIA	CALIFORNIA	S	1,302 *	435 CANYON RESEARCH GROUP INC WESTLAKE VILLA	CALIFORNIA	S	1,178 *	1,178
				1,302					
409	G T E AUTOMATIC ELECTRIC INC PHOENIX	ARIZONA		1,300 *	436 POLARIS INC ARLINGTON	VIRGINIA	S	1,178 *	1,178
				1,300					
410	PRESEARCH INC ARLINGTON	VIRGINIA	S	1,288 *	437 POLAR RESEARCH LABORATORY INC SANTA BARBARA	CALIFORNIA	S	1,177 *	1,177
				1,288					
411	DELTA RESEARCH INC HUNTSVILLE	ALABAMA	S	1,286 *	438 PACCAR INC RENTON	WASHINGTON		1,173 *	1,173
				1,286					
412	MCLEAN RESEARCH CENTER INC MCLEAN	VIRGINIA	S	1,286 *	439 SCIENCE & TECHNOLOGY INC HUNTSVILLE ARLINGTON HAMPTON	ALABAMA VIRGINIA VIRGINIA	S	1,173 *	463
				1,286					265
									445
413	M & S COMPUTING INC HUNTSVILLE			1,286	440 M & S COMPUTING INC HUNTSVILLE	ALABAMA		1,172 *	1,172

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Table 2. Net Value of DOD Prime Contract Awards Over \$25,000  
for RDT&E to Business Firms: FY 1983  
(Continued)

RANK	NAME OF CONTRACTOR AND LOCATION	THOUSANDS OF DOLLARS	RANK	NAME OF CONTRACTOR AND LOCATION	THOUSANDS OF DOLLARS
442	SYSTRON DONNER CORP CONCORD VAN NUYS	CALIFORNIA CALIFORNIA 933	468	MAN TRUCK & BUS CORP CHARLOTTE	1,037 * 1,037
443	SIGNATRON INC LEXINGTON	MASS	S	1,152 * 1,152	1,021 * 1,021
444	G T E LABORATORIES INC WALTHAM	MASS		1,150 * 1,150	1,018 * 1,018
445	VISIDYNE INC BURLINGTON	MASS	S	1,149 * 1,149	1,015 * 1,015
447	CONSOLIDATED ANALYSIS CENTER INC ARLINGTON	VIRGINIA		1,125 * 1,125	1,011 * 506 398 107
449	G A F CORP WAYNE NEW YORK	NEW JERSEY NEW YORK		1,118 * 1,082 36	1,010 * 1,010
450	TELEDYNE CONTINENTAL MOTORS MUSKEGON	MICHIGAN		1,117 * 1,117	1,000 * 1,000
451	SYSTEMS ARCHITECTS INC RANDOLPH WRIGHT PATTERS	MASS OHIO	S	1,115 * 463 652	997 * 997
452	APTER COLORADO SPRIN	COLORADO	S	1,113 * 1,113	988 * 988
453	MEDLEY TOOL & MODEL CO INC PHILADELPHIA	PA	S	1,101 * 1,101	982 * 982
454	ROLI CORP SAN JOSE	CALIFORNIA		1,100 * 1,100	980 * 889 91
455	PHYSICAL RESEARCH INC HUNTSVILLE PALOS VERDES E	ALABAMA CALIFORNIA	S	1,092 * 333 759	964 * 964
458	APPLICATIONS RESEARCH CORP DAYTON WRIGHT PATTERS	OHIO OHIO	S	1,084 * 958 126	960 * 960
459	LIFE SUPPORT SYSTEMS INC MOUNTAIN VIEW	CALIFORNIA	S	1,084 * 1,084	959 * 959
460	DECISIONS & DESIGNS INC MCLEAN	VIRGINIA	S	1,066 * 1,066	958 * 711
461	HYCOM INC IRVINE	CALIFORNIA	S	1,063 * 1,063	247
462	APPLIED RESEARCH ASSOCIATES ALBUQUERQUE SOUTH ROYALTON	NEW MEXICO VERMONT	S	1,058 * 361 177	952 * 190 469 293
463	NUCLEAR METALS INC CONCORD	MASS	S	1,055 * 1,055	952 * 252 700
464	I T T CONTINENTAL BAKING CO PATERSON	NEW JERSEY		1,053 * 1,053	951 * 951
465	M K ASSOCIATES INC HUNTSVILLE	ALABAMA	S	1,052 * 1,052	945 * 100 845
467	ROSENBAUM HAROLD ASSOCIATES INC BOSTON BURLINGTON LEXINGTON	MASS MASS MASS	S	1,040 * 60 523 457	942 * 942
470	WESTEC SERVICES INC SAN DIEGO		CALIFORNIA	S	1,021 * 1,021
471	CERADYNE INC SANTA ANA		CALIFORNIA	S	1,018 * 1,018
472	WAGNER DANIEL H ASSOCIATES INC PAOLI		PA	S	1,015 * 1,015
473	TOYON RESEARCH CORP GOLETA NEWPORT BEACH SANTA BARBARA		CALIFORNIA CALIFORNIA CALIFORNIA	S	1,011 * 506 398 107
474	SYSTEMS RESEARCH & APPL CORP ARLINGTON		VIRGINIA	S	1,010 * 1,010
477	ORLANDO TECHNOLOGY INC SHALIMAR		FLORIDA	S	1,000 * 1,000
478	I M R SYSTEMS CORP FORT LEAVENWOR		KANSAS	S	997 * 997
479	SPECTRON DEVELOPMENT LABORATORIES COSTA MESA		CALIFORNIA	S	988 * 988
480	BERKELEY RESEARCH ASSOC BERKELEY		CALIFORNIA	S	982 * 982
481	INTERCON SYSTEMS CORP LINTHICUM HIGHT FORT BLISS		MARYLAND TEXAS	S	980 * 889 91
482	INTEGRATED SYSTEMS ANALYSTS INC ARLINGTON		VIRGINIA	S	964 * 964
483	TECHNITROL INC PHILADELPHIA		PA	S	960 * 960
484	BELL HELICOPTER INTERNATIONAL INC FORT WORTH		TEXAS		959 * 959
485	A M A F INDUSTRIES INC COLUMBIA		MARYLAND	S	958 * 958
486	SIGNAL SCIENCE INC SANTA CLARA HANOVER		CALIFORNIA MARYLAND	S	958 * 711 247
487	ARMAMENT SYSTEMS INC ANAHEIM FORT WALTON BE ABERDEEN PROV		CALIFORNIA FLORIDA MARYLAND	S	952 * 190 469 293
489	KESTREL INSTITUTE LOS ALTOS HILL PALO ALTO		CALIFORNIA CALIFORNIA	S	952 * 252 700
490	NEWPORT NEWS SHIPBLD & DRY DOCK CO NEWPORT NEWS		VIRGINIA		951 * 951
491	SIERRA GEOPHYSICS INC ARCADIA REDMOND		CALIFORNIA WASHINGTON	S	945 * 100 845
492	CHRYSLER CORP HUNTSVILLE		ALABAMA		942 * 942

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**Table 2. Net Value of DOD Prime Contract Awards Over \$25,000  
for RDT&E to Business Firms: FY 1983  
(Concluded)**

RANK	NAME OF CONTRACTOR AND LOCATION	THOUSANDS OF DOLLARS	RANK	NAME OF CONTRACTOR AND LOCATION	THOUSANDS OF DOLLARS
494	CORVUS SYSTEMS INC MCLEAN VIRGINIA VIENNA VIRGINIA	S 936 *			
		126			
		810			
496	INFORMATION SYSTEMS NETWORKS CORP CHEVY CHASE MARYLAND SAN ANTONIO TEXAS	S 927 *			
		597			
		330			
497	RIKER LABORATORIES INC NORTH RIDGE CALIFORNIA	910 *			
		910			
500	ASSOCIATE CONSULTANTS INC WASHINGTON DC	S 900 *			
		900			
		14,297,094			

- = MINUS AMOUNT (CANCELLATIONS EXCEED NEW AWARDS)  
S = SMALL BUSINESS

Table 3. Net Value of DOD Prime Contract Awards Over \$25,000  
for RDT&E to Educational and Nonprofit Institutions: FY 1983

RANK	NAME OF CONTRACTOR AND LOCATION	THOUSANDS OF DOLLARS	RANK	NAME OF CONTRACTOR AND LOCATION	THOUSANDS OF DOLLARS
14	AEROSPACE CORP EL SEGUNDO	260,474 *		BATTELLE MEMORIAL INSTITUTE ENGLEWOOD	97
		260,474		FORT COLLINS	70
15	MASSACHUSETTS INSTITUTE TECHNOLOGY CAMBRIDGE	247,845 *		WASHINGTON	49
	LEXINGTON	50,107		GAINESVILLE	32
		197,738		ATHENS	34
17	JOHNS HOPKINS UNIVERSITY BALTIMORE	226,703 *		ATLANTA	61
	LAUREL	1,991		FORT GORDON	99
		224,712		WEST LAFAYETTE	27
20	MITRE CORP PASO ROBLES	204,242 *		MANHATTAN	215
	BEDFORD	52		ABERDEEN PROV	586
	MCLEAN	204,032		COLLEGE PARK	27
		158		ST PAUL	35
37	CHARLES STARK DRAPER LABS INC CAMBRIDGE	85,509 *		ST LOUIS	104
		85,509		DOVER	26
49	S R I INTERNATIONAL MENLO PARK	43,685 *		FORT DIX	37
	ARLINGTON	43,610		FORT MONMOUTH	47
		75		MORESTOWN	36
				PISCATAWAY	30
				PRINCETON	46
				WHITE SANDS MS	134
				RESEARCH TRIAN	440
				CLEVELAND	29
51	ILLINOIS INSTITUTE TECHNOLOGY CHICAGO	42,054 *		COLUMBUS	16,720
	ANNAPOLIS	8,706		BROOKS AFB	101
	LANHAM	32,326		DALLAS	45
	GRIFFISS AFB	70		SAN ANTONIO	45
	ROME	90		SALT LAKE CITY	48
		862		BURLINGTON	45
54	CALIFORNIA UNIVERSITY OF BERKELEY	39,956 *		ALEXANDRIA	58
	DAVIS	9,829		FORT BELVOIR	37
	IRVINE	386		FORT EUSTIS	85
	LA JOLLA	1,853		FORT MONROE	109
	LOS ANGELES	12,368		HAMPTON	32
	RIVERSIDE	7,167		WARRENTON	45
	SACRAMENTO	64		RICHLAND	533
	SAN DIEGO	30	77	PENNSYLVANIA STATE UNIVERSITY HERSHEY	20,436 *
	SAN FRANCISCO	181		STATE COLLEGE	99
	SANTA BARBARA	1,123		UNIVERSITY PAR	2,707
	SANTA CRUZ	2,832			17,630
	WRIGHT PATTERS	87			
	OHIO	4,036	78	ROCHESTER UNIVERSITY OF ROCHESTER	20,393 *
67	STANFORD UNIVERSITY MENLO PARK	25,993 *		ARLINGTON	4,805
	STANFORD	44		VIRGINIA	15,588
70	GEORGIA TECH RESEARCH INSTITUTE ATLANTA	25,160 *	81	SOUTHERN CALIFORNIA UNIVERSITY OF LOS ANGELES	18,762 *
		25,160		MARINA DEL REY	18,723
71	RAND CORP SANTA MONICA	23,811 *			39
72	TEXAS UNIVERSITY OF	23,250 *	89	WASHINGTON UNIVERSITY OF SEATTLE	15,269 *
	ARLINGTON	226			15,269
	AUSTIN	63	93	DAYTON UNIVERSITY OF WILLIAMS AFB	14,809 *
	BROOKS AFB	21,448		EDWARDS AFB	2,972
	DALLAS	55		DAYTON	272
	EL PASO	124		WRIGHT PATTERS	9,424
	GALVESTON	144		OHIO	2,141
	HOUSTON	102			
	RICHARDSON	132	96	NEW MEXICO STATE UNIVERSITY LAS CRUCES	14,013 *
	SAN ANTONIO	389		WHITE SANDS MS	1,726
		567		NEW MEXICO	12,285
74	INSTITUTE FOR DEFENSE ANALYSIS ALEXANDRIA	22,440 *	106	CARNEGIE MELLON UNIVERSITY PITTSBURGH	12,248 *
		22,440		PA	12,248
76	BATTELLE MEMORIAL INSTITUTE HUNTSVILLE	20,667 *	112	SOUTHWEST RESEARCH INSTITUTE SAN ANTONIO	11,388 *
	IRVINE	297		TEXAS	11,388
	LA JOLLA	60			
	PACIFIC	75	114	NEW MEXICO UNIVERSITY OF ALBUQUERQUE	10,522 *
	SAN DIEGO	41		KIRTLAND AFB	1,081
		30		NEW MEXICO	9,461

\* = MINUS AMOUNT (CANCELLATIONS EXCEED NEW AWARDS)

**Table 3. Net Value of DOD Prime Contract Awards Over \$25,000  
for RDT&E to Educational and Nonprofit Institutions: FY 1983  
(Continued)**

RANK	NAME OF CONTRACTOR AND LOCATION	THOUSANDS OF DOLLARS	RANK	NAME OF CONTRACTOR AND LOCATION	THOUSANDS OF DOLLARS
116	ILLINOIS UNIVERSITY OF CHAMPAIGN ILLINOIS CHICAGO ILLINOIS URBANA ILLINOIS	10,426 * 1,520 3,276 5,630	242	MIAMI UNIVERSITY OF CORAL GABLES FLORIDA MIAMI FLORIDA	3,333 * 956 2,377
122	NATIONAL ACADEMY OF SCIENCES WASHINGTON DC ABERDEEN PROV MARYLAND BETHESDA MARYLAND WHITE SANDS MS NEW MEXICO	9,860 * 9,115 299 355 91	244	SOUTHERN RESEARCH INSTITUTE BIRMINGHAM ALABAMA	3,314 * 3,314
126	WOODS HOLE OCEANOGRAPHIC INST WOODS HOLE MASS	9,640 * 9,640	246	VIRGINIA POLYTECHNIC INSTITUTE BLACKSBURG VIRGINIA	3,286 * 3,286
133	UTAH STATE UNIVERSITY LOGAN UTAH	8,745 * 8,745	250	MASSACHUSETTS UNIVERSITY OF AMHERST MASS WORCESTER MASS	3,158 * 2,911 247
149	COLUMBIA UNIVERSITY NEW YORK NEW YORK PALISADES NEW YORK	7,165 * 6,680 485	252	TEXAS A & M RESEARCH FOUNDATION COLLEGE STATION TEXAS	3,121 * 3,121
154	MARYLAND UNIVERSITY OF BALTIMORE MARYLAND COLLEGE PARK MARYLAND	6,790 * 1,075 5,715	254	MICHIGAN UNIVERSITY OF ANN ARBOR MICHIGAN PONTIAC MICHIGAN	3,064 * 2,989 75
156	ENVIRONMENTAL RESEARCH INSTIT MICH ANN ARBOR MICHIGAN	6,400 * 6,400	260	ARIZONA UNIVERSITY OF TUCSON ARIZONA	2,991 * 2,991
170	SALK INSTITUTE THE SWIFTWATER PA	5,451 * 5,451	264	RENNSELAER POLYTECHNIC INSTITUTE TROY NEW YORK	2,906 * 2,906
177	CORNELL UNIVERSITY ITHACA NEW YORK NEW YORK NEW YORK	5,227 * 4,800 427	267	PRINCETON UNIVERSITY PRINCETON NEW JERSEY	2,848 * 2,848
187	ANALYTIC SERVICES INC ARLINGTON VIRGINIA	4,835 * 4,835	272	NEW YORK UNIVERSITY NEW YORK NEW YORK	2,693 * 2,693
188	CALIFORNIA INSTITUTE OF TECHNOLOGY PASADENA CALIFORNIA	4,808 * 4,808	273	ARMOUR PHARMACEUTIAL CO CHICAGO ILLINOIS	2,690 * 2,690
197	OHIO STATE UNIV RESERCH FOUNDATION COLUMBUS OHIO	4,522 * 4,522	275	SOUTHEASTERN CTR ELECT ENGR EDUC ORLANDO FLORIDA ST CLOUD FLORIDA HANSCOM AFB MASS WRIGHT PATTERS OHIO	2,687 * 79 2,357 80 171
198	YALE UNIVERSITY NEW HAVEN CONN	4,462 * 4,462	276	BOSTON COLLEGE CHESTNUT HILL MASS HANSCOM AFB MASS NEWTON MASS WESTON MASS	2,677 * 1,698 120 403 456
202	RIVERSIDE RESEARCH INSTITUTE NEW YORK NEW YORK	4,306 * 4,306	279	SYRACUSE RESEARCH CORP SYRACUSE NEW YORK	2,635 * 2,635
203	UTAH UNIVERSITY OF SALT LAKE CITY UTAH	4,304 * 4,304	282	RHODE ISLAND UNIVERSITY OF KINGSTON RI	2,566 * 2,566
204	WISCONSIN UNIVERSITY OF MADISON WISCONSIN PLATTEVILLE WISCONSIN	4,285 * 4,247 38	287	GEORGE WASHINGTON UNIVERSITY WASHINGTON DC	2,524 * 2,524
211	PENNSYLVANIA UNIVERSITY OF PHILADELPHIA PA	3,947 * 3,947	288	FLORIDA STATE UNIVERSITY GAINESVILLE FLORIDA TALLAHASSEE FLORIDA	2,519 * 912 1,607
213	OREGON STATE UNIVERSITY CORVALLIS OREGON	3,924 * 3,924	290	OKLAHOMA STATE UNIVERSITY OF EGLIN AFB FLORIDA STILLWATER OKLAHOMA	2,476 * 1,511 965
214	HARVARD UNIVERSITY CAMBRIDGE MASS	3,920 * 3,920	293	PITTSBURGH UNIVERSITY OF PITTSBURGH PA	2,431 * 2,431
233	CALIFORNIA STATE OF BERKELEY CALIFORNIA	3,499 * 3,499	296	COLORADO UNIVERSITY BOULDER COLORADO COLORADO SPRIN COLORADO DENVER COLORADO	2,377 * 1,804 114 359
234	BOSTON UNIVERSITY BOSTON MASS	3,476 * 3,476			

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**Table 3. Net Value of DOD Prime Contract Awards Over \$25,000  
for RDT&E to Educational and Nonprofit Institutions: FY 1983  
(Continued)**

RANK	NAME OF CONTRACTOR AND LOCATION	THOUSANDS OF DOLLARS	RANK	NAME OF CONTRACTOR AND LOCATION	THOUSANDS OF DOLLARS
298	NORTHEASTERN UNIVERSITY BOSTON MASS	2,362 *	353	NORTHWESTERN UNIVERSITY EVANSTON ILLINOIS	1,686 *
299	GEORGIA INSTITUTE TECH ATLANTA GEORGIA	2,355 *	357	VIRGINIA UNIVERSITY OF CHARLOTTESVILLE VIRGINIA	1,670 *
300	LEHIGH UNIVERSITY BETHLEHEM PA	2,298 *	370	MICHIGAN STATE UNIVERSITY ANN ARBOR MICHIGAN	1,531 *
301	PURDUE RESEARCH FOUNDATION LAFAYETTE INDIANA	2,279 *		EAST LANSING MICHIGAN	55
	WEST LAFAYETTE INDIANA	589			1,476
		1,690	378	ALABAMA UNIVERSITY OF BIRMINGHAM ALABAMA	1,464 *
305	HUMAN RESOURCES RESEARCH ORGN ALEXANDRIA VIRGINIA	2,209 *		HUNTSVILLE ALABAMA	409
		2,209		NORMAL ALABAMA	793
309	NORTH CAROLINA UNIVERSITY OF CHAPEL HILL NCAR	2,157 *	381	NEW YORK POLYTECHNIC INSTITUTE BROOKLYN NEW YORK	1,456 *
	WILMINGTON NCAR	2,067			1,456
		90	401	TENNESSEE UNIVERSITY OF KNOXVILLE TENNESSEE	1,328 *
310	NEW YORK STATE UNIV RESEARCH FOUND ALBANY NEW YORK	2,144 *		MEMPHIS TENNESSEE	780
	BINGHAMTON NEW YORK	1,870		TULLAHOMA TENNESSEE	278
	BUFFALO NEW YORK	120			270
		154	405	LOUISIANA STATE UNIVERSITY OF BATON ROUGE LOUISIANA	1,319 *
311	FLORIDA UNIVERSITY GAINESVILLE FLORIDA	2,140 *		NEW ORLEANS LOUISIANA	937
		2,140			382
312	NEW MEXICO INSTITUTE MINING & TECH SOCORRO NEW MEXICO	2,138 *	407	MISSOURI UNIVERSITY OF COLUMBIA MISSOURI	1,306 *
		2,138		KANSAS CITY MISSOURI	1,028
				ROLLA MISSOURI	27
313	HAWAII UNIVERSITY OF HONOLULU HAWAII	2,128 *	414	STEVENS INSTITUTE OF TECHNOLOGY HOBOKEN NEW JERSEY	1,266 *
	PEARL HARBOR N HAWAII	1,680			1,266
		448	418	DUKE UNIVERSITY DURHAM NCAR	1,247 *
316	BROWN UNIVERSITY PROVIDENCE RI	2,109 *			1,247
		2,109	424	FLORIDA TECHNOLOGICAL UNIVERSITY ORLANDO FLORIDA	1,203 *
323	WASHINGTON BOOKER T FOUNDATION WASHINGTON DC	2,033 *			1,203
		2,033	431	EMMANUEL COLLEGE LEXINGTON MASS	1,186 *
326	IOWA UNIVERSITY OF AMES IOWA	1,941 *			1,186
	IOWA CITY IOWA	55			
		1,886	433	MICHIGAN TECHNOLOGICAL UNIVERSITY HOUGHTON MICHIGAN	1,182 *
330	CASE WESTERN RESERVE UNIVERSITY CLEVELAND OHIO	1,878 *			1,182
		1,878	441	WENTWORTH INSTITUTE BOSTON MASS	1,171 *
332	GEORGETOWN UNIVERSITY WASHINGTON DC	1,869 *			1,171
		1,869	446	TEXAS TECHNOLOGICAL COLLEGE LUBBOCK TEXAS	1,126 *
335	RESEARCH TRIANGLE INSTITUTE RESEARCH TRIAN NCAR	1,855 *			1,126
		1,855	448	NEW YORK STATE UNIVERSITY OF ALBANY NEW YORK	1,119 *
336	CLEMSON UNIVERSITY CLEMSON SCAR	1,852 *		NEW YORK NEW YORK	358
		1,852		STONY BROOK NEW YORK	576
343	COLORADO STATE UNIVERSITY FORT COLLINS COLORADO	1,815 *			185
		1,815	456	RUTGERS UNIVERSITY NEW BRUNSWICK NEW JERSEY	1,089 *
346	MINNESOTA UNIVERSITY OF MINNEAPOLIS MINNESOTA	1,795 *		PISCATAWAY NEW JERSEY	1,049
	ST PAUL MINNESOTA	392			40
		1,403	457	WASHINGTON STATE UNIVERSITY PULLMAN WASHINGTON	1,086 *
349	NORTH CAROLINA STATE UNIVERSITY RALEIGH NCAR	1,731 *			1,086
		1,731	469	PURDUE UNIVERSITY LAFAYETTE INDIANA	1,033 *
352	DENVER UNIVERSITY OF DENVER COLORADO	1,698 *		WEST LAFAYETTE INDIANA	50
		1,698			983

- = MINUS AMOUNT (CANCELLATIONS EXCEED NEW AWARDS)

**Table 3. Net Value of DOD Prime Contract Awards Over \$25,000  
for RDT&E to Educational and Nonprofit Institutions: FY 1983  
(Concluded)**

RANK	NAME OF CONTRACTOR AND LOCATION	THOUSANDS OF DOLLARS	RANK	NAME OF CONTRACTOR AND LOCATION	THOUSANDS OF DOLLARS
475	CATHOLIC UNIVERSITY OF AMERICA WASHINGTON DC	1,009 *			
		1,009			
488	DREXEL UNIVERSITY PHILADELPHIA PA	952 *			
		952			
493	HOUSTON UNIVERSITY OF HOUSTON TEXAS	938 *			
		938			
495	WASHINGTON UNIVERSITY ST LOUIS MISSOURI RICHLAND WASHINGTON	933 *			
		903			
		30			
498	AUBURN UNIVERSITY AUBURN ALABAMA	904 *			
		904			
499	REGENTS OF THE UNIVERSITY OF MICH ANN ARBOR MICHIGAN	901 *			
		901			
		1,678,810			

- = MINUS AMOUNT (CANCELLATIONS EXCEED NEW AWARDS)

**Table 4. Net Value of DOD Prime Contract Awards Over \$25,000  
for RDT&E to Foreign Contractors: FY 1983**

RANK	NAME OF CONTRACTOR AND LOCATION	THOUSANDS OF DOLLARS	RANK	NAME OF CONTRACTOR AND LOCATION	THOUSANDS OF DOLLARS
132	CANADIAN COMMERCIAL CORP WARMINSTER	8,780 * CANADA PA 64			
199	MARCONI CO LTD	4,416 * UN KINGDOM			
261	A S RAUFOSS AMMUNISJONSFABRINKER NORWAY	2,955 * 2,955			
466	MATRA CO EGLIN AFB	1,044 * FLORIDA			
476	A S KONSBERG VAPENFABRIKK NORWAY	1,000 * 1,000			
		18,195			

- \* MINUS AMOUNT (CANCELLATIONS EXCEED NEW AWARDS)

Table 5. Net Value of DOD Prime Contract Awards Over \$25,000  
for RDT&E to U.S. Government Agencies: FY 1983

RANK	NAME OF CONTRACTOR AND LOCATION	THOUSANDS OF DOLLARS	RANK	NAME OF CONTRACTOR AND LOCATION	THOUSANDS OF DOLLARS
90	UNITED STATES NATI. AERO SPACE AGY PASADENA RIDGELEY	15,261 * 192 15,069			
237	UNITED STATES COMMERCE DEPT BOULDER WASHINGTON MIAMI GAITHERSBURG ROCKVILLE SEATTLE	3,397 * COLORADO DC FLORIDA MARYLAND MARYLAND WASHINGTON			
		1,392 1,630 35 35 82 223			
415	UNITED STATES ENERGY DEPT LIVERMORE OAKLAND ARGONNE OAK RIDGE	1,263 * CALIFORNIA CALIFORNIA ILLINOIS TENNESSEE			
		127 653 173 310			
		19,921			

\* = MINUS AMOUNT (CANCELLATIONS EXCEED NEW AWARDS)